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SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019

July 10, 1998

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U.S. Environmental Protection Agency
Removal Action Branch
2890 Woodbridge Avenue
Edison, NJ 08837

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SUBJECT: TIER III RESIDENTIAL/NEIGHBORHOOD SAMPLING AND ANALYSIS
SUMMARY REPORT - CORNELL DUBILIER ELECTRONICS

Dear Mr. Wilson:

Enclosed please find the Tier III Residential/Neighborhood Sampling and Analysis Summary Report for the Cornell Dubilier Electronics site located in South Plainfield, Middlesex County, New Jersey. If you have any questions or comments, please call me at (732) 225-6116.

Very truly yours,

ROY F. WESTON, INC.

Michael Mahnkopf
Project Manager

Enclosure

cc: TDD File



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**TIER III RESIDENTIAL/NEIGHBORHOOD SAMPLING
AND ANALYSIS SUMMARY REPORT**

**CORNELL DUBILIER ELECTRONICS
SOUTH PLAINFIELD, MIDDLESEX COUNTY, NEW JERSEY**

Prepared by

Superfund Technical Assessment and Response Team
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Federal Programs Division
Edison, New Jersey 08837

Prepared for

U.S. Environmental Protection Agency
Region II - Removal Action Branch
Edison, New Jersey 08837

DCN #: START-02-F-01844
TDD #: 02-97-02-0015
EPA Contract No.: 68-W5-0019

Approved by:

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Date: 7/10/98

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Date: 7/10/98

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Date: _____

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1.0 BACKGROUND

The Cornell-Dubilier Site is located at 333 Hamilton Boulevard in South Plainfield, Middlesex County, New Jersey (Attachment A, Figure 1). The site is approximately 25 acres in size. Facing Hamilton Boulevard are several buildings currently occupied by approximately 15 businesses. The rear of the property consists of an open field and adjoining wetlands. The facility is currently known as Hamilton Industrial Park.

The site is bordered by Hamilton Boulevard to the northwest, Spicer Avenue to the southwest, a wetlands area to the southeast, the Bound Brook and Conrail railroad tracks to the northeast. The Bound Brook traverses the southeast section of the site.

Cornell-Dubilier operated at the site from 1936 to 1962, manufacturing electronic components, including capacitors. It is alleged that during its operation, Cornell-Dubilier disposed of PCB contaminated materials and other hazardous substances at the site.

Previous investigations have identified polychlorinated biphenyls (PCBs) and heavy metals at the Cornell-Dubilier site and in the Bound Brook downstream of the site.

PCBs were also detected in interior dust and soil samples collected from residential properties located adjacent to the site in October and November 1997. EPA risk assessors and the Agency for Toxic Substances and Disease Registry (ATSDR) reviewed the data and determined that PCB levels found at several properties along Spicer Avenue were a health concern for residents.

2.0 OBJECTIVE/SAMPLING DESIGN

The objective of this sampling program was to collect the data necessary to determine if health concerns exist for the residents of additional properties located near the Site.

Screening soil samples were collected at 100 foot intervals from the following areas. This data will be used to determine if additional investigations are required to evaluate health concerns.

- Area 1. Area bounded on the northeast by Delmore Avenue, on the south by Belmont Avenue, on the southwest by Arlington Avenue, and on the northwest by Hamilton Boulevard;
- Area 2. Area located on the northeast side of Delmore Avenue, between Fulton Street and Belmont Avenue;
- Area 3. Area located on the south side of Belmont Avenue between Arlington Avenue and Metuchen Road;

Area 4. Area located on the southeast side of Hancock Street between Lakeview and Amboy Avenues.

In accordance with the April 27, 1998 Residential/Neighborhood Soil Sampling QA/QC Work Plan (DCN: START-02-F-1753), surface (0-2") soil samples were collected from the neighborhood Areas 1-4 described above. All sample locations were determined in the field utilizing a systematic sampling scheme, based on 100' spacing.

Results of the screening soil samples will be evaluated to determine if additional sampling is required to delineate the horizontal extent of PCB contamination or assess risk.

3.0 SAMPLING & ANALYSIS

Soil sampling activities were performed on May 4 and May 5, 1998 by the following personnel:

1. Tom O'Neill - START, Region II
2. Harry Allen - START, Region II
3. Sharron DaCosta - START, Region II

All soil samples were collected utilizing dedicated plastic scoops and/or spatulas. All soil samples were analyzed by Ecology & Environment, 4493 Walden Avenue, Lancaster, NY, 14086, (716) 685-8080. For additional information, see the May 7, 1998 Trip Report included as Appendix 2 and project logbook # START-02-209.

3.1 Area 1

Pursuant to the procedures discussed above in Section 2.0, thirty-nine (39) surface (0-2") soil samples (A1-001 through A1-003, A1-003A, A1-004 through A1-007, A1-007A through A1-007B, A1-008 through A1-010, A1-010A, A1-011 through A1-035) were collected and analyzed for total PCBs. Soil sample locations are shown on Figure 2.

QA/QC samples included the collection of two (2) field duplicate samples (A1-007C - dupl. of A1-007B; A1-036 - dupl. of A1-001) and two (2) matrix spike/matrix spike duplicate samples (A1-007B MS/MSD; A1-033 MS/MSD). Samples A1-007C, A1-036, A1-007B MS/MSD and A1-033 MS/MSD were analyzed for total PCBs.

Analytical results indicate soil samples A1-001 through A1-036 exhibited total PCB concentrations ranged from 0.027 parts per million (ppm), estimated (J) (A1-010) to 2.9 ppm (A1-002). Arochlor-1254 concentrations ranged from 0.027 ppm (J) (A1-010) to 2.9 ppm (A1-002). Arochlor-1260 concentrations ranged from non-detected (ND) (A1-002, A1-004, A1-006, A1-010, A1-024, A1-025) to 0.38 ppm (J) (A1-007B).

0.64 ppm (A1-035).

Analytical results are summarized in Table 1 and the laboratory Form I's and data validation results are included as Appendix 3.

3.2 Area 2

Pursuant to the procedures discussed above in Section 2.0, fifteen (15) surface (0-2") soil samples (A2-001 through A2-015) were collected and analyzed for total PCBs. Soil sample locations are shown on Figure 2.

QA/QC samples included the collection of one (1) field duplicate sample (A2-016 - dupl. of A2-008) and one (1) matrix spike/matrix spike duplicate sample (A2-008 MS/MSD). Samples A2-016 and A2-008 MS/MSD were analyzed for total PCBs.

Analytical results indicate soil samples A2-001 through A2-016 exhibited total PCB concentrations ranged from 0.022 ppm (J) (A2-005) to 2.3 ppm (A2-015). Arochlor-1254 concentrations ranged from 0.022 ppm (J) (A2-005) to 1.5 ppm (A2-015). Arochlor-1260 concentrations ranged from ND (A2-005, A2-014, A2-016) to 0.75 ppm (A2-015).

Analytical results are summarized in Table 2 and the laboratory Form I's and data validation results are included as Appendix 3.

3.3 Area 3

Pursuant to the procedures discussed above in Section 2.0, ten (10) surface (0-2") soil samples (A3-001 through A3-010) were collected and analyzed for total PCBs. Soil sample locations are shown on Figure 3. QA/QC samples were not collected from within this area of concern.

Analytical results indicate soil samples A3-001 through A3-010 exhibited total PCB concentrations ranged from 0.12 ppm (J) (A3-001) to 0.93 ppm (J) (A3-004). Arochlor-1254 concentrations ranged from 0.085 ppm (J) (A3-001) to 0.93 ppm (J) (A3-004). Arochlor-1260 concentrations ranged from ND (A3-004, A3-009, A3-010) to 0.14 ppm (J) (A3-007).

Analytical results are summarized in Table 3 and the laboratory Form I's and data validation results are included as Appendix 3.

3.4 Area 4

Pursuant to the procedures discussed above in Section 2.0, ten (10) surface (0-2") soil samples (A4-001 through A4-009, A4-011) were collected and analyzed for total PCBs. Soil sample locations are shown on Figure 4.

QA/QC samples included the collection of one (1) field duplicate sample (A4-010 - dupl. of A4-001) and one (1) matrix spike/matrix spike duplicate sample (A4-001 MS/MSD). Samples A4-010 and A4-001 MS/MSD were analyzed for total PCBs.

Analytical results indicate soil samples A4-001 through A4-011 exhibited total PCB concentrations ranged from 0.054 ppm (J) (A4-007) to 1.4 ppm (J) (A4-004). Arochlor-1254 concentrations ranged from 0.037 ppm (J) (A4-007) to 1.2 ppm (J) (A4-004). Arochlor-1260 concentrations ranged from 0.017 ppm (J) (A4-007) to 0.20 ppm (J) (A4-009).

Analytical results are summarized in Table 4 and the laboratory Form I's and data validation results are included as Appendix 3.

4.0 SITE SPECIFIC QUALITY ASSURANCE/QUALITY CONTROL PLAN

The objective of this QA/QC plan is to provide analytical results which are legally defensible in a court of law. The QA/QC plan incorporated procedures for field sampling, chain of custody, laboratory analyses, and reporting to assure generation of sound analytical results. Sampling procedures were conducted in accordance with USEPA protocols.

4.1 Sampling Equipment and Methods

Samples were collected at the locations and depths as described in this report. Procedural changes dictated by field conditions were fully documented in the field notes and the trip report.

Equipment utilized for this project were dedicated plastic scoops and spatulas. Where necessary and prior to sample collection, non-dedicated stainless steel spackle knives were utilized to remove the top layer of grass at sample locations. The stainless steel spackle knives were decontaminated between sample locations using a detergent (Alconox/water) solution, followed by a tap water rinse.

All soil samples were transferred immediately after collection into sample bottles selected by parameter as listed below. Sample bottles used for this project were prepared in accordance with USEPA criteria for polychlorinated biphenyls (PCBs).

The type of sample container required for the Cornell Dubilier Electronics residential/neighborhood soil investigation were as follows:

- a. Polychlorinated Biphenyls - 8 oz. glass bottle with teflon closure.

All soil samples were packed on ice immediately following collection.

All samples were labeled with the following information:

- a. sample number;
- b. date and time of collection;
- c. site name;
- d. sample collector's initials;
- e. analyses required.

Accurate field notes were maintained which included the information listed above. Additional information included, but was not limited to:

- a. sample location sketch;
- b. sample method;
- c. general comments, including any modification from the sample plan.

4.2 Chain of Custody

Chain of custody was maintained for all samples. Chain of custody originated with the collection of the samples and was maintained until the samples were relinquished to the laboratory. The chain of custody form detailed the following information:

- a. sample identification number;
- b. sample collection date and time;
- c. sample matrix;
- d. expected contaminant concentration (low, medium, high);
- e. sample type (grab or composite);
- f. sample preservation;
- g. analytical parameters;
- h. name(s) and signatures(s) of sampler(s);
- I. signatures(s) of individual(s) with control over samples.

4.3 Quality Assurance/Quality Control Samples

The matrix for all samples included in this investigation was soil. QA/QC samples included the collection of one (1) field duplicate and one (1) matrix spike/matrix spike duplicate sample for each matrix (soil) per sampling date at a ratio of one (1) per twenty (20) samples. Extra volume was submitted to allow the laboratory to perform matrix spike sample analysis. This analysis provides information about the effect of sample matrix digestion and measurement methodology. Field duplicate samples provide an indication of sample homogeneity and were not identified to the laboratory. In addition, one (1) rinsate blank per sampling date was also submitted for PCB analysis. The rinsate blank serves as an indicator of the effectiveness of the equipment decontamination procedures.

4.4 Sample QA/QC Data

A CLP format deliverable QA/QC package was provided for all samples submitted for analysis.

5.0 DATA VALIDATION

Data was evaluated according to criteria contained in the Removal Program Data Validation Procedures that accompany OSWER Directive number 9360.4-1 and in accordance with Region II guidelines using the following data validation SOP: SOP HW-13, "USEPA Region II Data Validation SOP for Statement of Work OLCO 2.1, Rev.2". Laboratory analytical results were assessed by the data reviewer for compliance with required precision, accuracy, completeness, representativeness, and sensitivity.

Data validation was performed by START, Region II in accordance with Level QA-2 criteria. Data validation results indicate that the analytical results are acceptable with comments. For specific comments, see the Data Validation Results included as Appendix 3.

TABLE - 1 PCB DATA (Area 1)

SITE NAME: Cornell - Dubilier Electronics

SAMPLING DATE: May 4 and 5, 1998

UNITS: ug/kg

Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #	A1-001	A1-002	A1-003	A1-003A	A1-004	A1-005	A1-006	A1-007	A1-007A	A1-007B	
Lab ID #	6041	6042	6043	6178	6044	6045	6046	6047	6048	6049	
Percent Moisture	23	21	22	23	24	30	21	24	21	23	
Dilution Factor	2	20	1	1	10	2	1	1	1	4	
PCB	MDL ug/kg										
Aroclor-1016	33	U	U	U	U	U	U	U	U	U	U
Aroclor-1221	67	U	U	U	U	U	U	U	U	U	U
Aroclor-1232	33	U	U	U	U	U	U	U	U	U	U
Aroclor-1242	33	U	U	U	U	U	U	U	U	U	U
Aroclor-1248	33	U	U	U	U	U	U	U	U	U	U
Aroclor-1254	33	470 J	2900	130	230	920 J	520 J	110	220	120	790
Aroclor-1260	33	150 J	U	69	83 J	U	170 J	U	81	62	380 J
Total PCB	(mg/kg)	0.62 J	2.9	0.20	0.31 J	0.92 J	0.69 J	0.11	0.30	0.18	1.2 J

Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #	A1-007C	A1-008	A1-009	A1-010	A1-010A	A1-011	A1-012	A1-013	A1-014	A1-015	
Lab ID #	6050	6051	6052	6053	6087	6054	6055	6056	6057	6058	
Percent Moisture	22	23	17	19	18	31	28	37	33	27	
Dilution Factor	4	2	1	1	1	1	1	5	2	1	
PCB	MDL ug/kg										
Aroclor-1016	33	U	U	U	U	U	U	U	U	U	U
Aroclor-1221	67	U	U	U	U	U	U	U	U	U	U
Aroclor-1232	33	U	U	U	U	U	U	U	U	U	U
Aroclor-1242	33	U	U	U	U	U	U	U	U	U	U
Aroclor-1248	33	U	U	U	U	U	U	U	U	U	U
Aroclor-1254	33	580	490 J	46 J	27 J	95	100	100	1100	650	170
Aroclor-1260	33	300 J	150	31 J	U	43	51	46	220 J	190 J	60 J
Total PCB	(mg/kg)	0.88 J	0.64 J	0.077 J	0.027 J	0.14	0.15	0.15	1.3 J	0.84 J	0.23 J

U - Non-detected compound.

B - Detected in the corresponding method blank

J - Estimated Value

JN - Presumptive evidence of a compound at an estimated value.

R - Rejected Compound

UJ- Analyte was not detected. The reported quantitation limit is qualified estimated.

TABLE - 1 PCB DATA (Area 1)

SITE NAME: Cornell - Dubilier Electronics

SAMPLING DATE: May 4 and 5, 1998

UNITS: ug/kg

Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #	A1-016	A1-017	A1-018	A1-019	A1-020	A1-021	A1-022	A1-023	A1-024	
Lab ID #	6059	6060	6068	6069	6070	6071	6072	6073	6074	
Percent Moisture	17	30	22	19	24	30	19	22	26	
Dilution Factor	1	1	1	1	1	1	1	1	10	
PCB	MDL ug/kg									
Aroclor-1016	33	U	U	U	U	U	U	U	U	U
Aroclor-1221	67	U	U	U	U	U	U	U	U	U
Aroclor-1232	33	U	U	U	U	U	U	U	U	U
Aroclor-1242	33	U	U	U	U	U	U	U	U	U
Aroclor-1248	33	U	U	U	U	U	U	U	U	U
Aroclor-1254	33	81	230	180	130	99	290	81	220	850 J
Aroclor-1260	33	38 J	69 J	58 J	38 J	28 J	98	25 J	80	U
Total PCB	(mg/kg)	1.2 J	0.30 J	0.24 J	0.17 J	0.13 J	0.39	0.11 J	0.30	0.85 J

Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #	A1-025	A1-026	A1-027	A1-028	A1-029	A1-030	A1-031	A1-032	A1-033	
Lab ID #	6075	6076	6077	6078	6079	6080	6081	6082	6083	
Percent Moisture	24	25	20	22	24	27	30	31	23	
Dilution Factor	10	5	1	1	1	2	1	1	4	
PCB	MDL ug/kg									
Aroclor-1016	33	U	U	U	U	U	U	U	U	U
Aroclor-1221	67	U	U	U	U	U	U	U	U	U
Aroclor-1232	33	U	U	U	U	U	U	U	U	U
Aroclor-1242	33	U	U	U	U	U	U	U	U	U
Aroclor-1248	33	U	U	U	U	U	U	U	U	U
Aroclor-1254	33	1200 J	780 J	450	380	410	400	610	350	680
Aroclor-1260	33	U	200 J	110 J	92 J	120 J	130	170 J	110 J	220 J
Total PCB	(mg/kg)	1.2 J	0.98 J	0.56 J	0.47 J	0.53 J	0.53	0.78 J	0.46 J	0.90 J

Matrix	Soil	Soil	Soil
Client ID #	A1-034	A1-035	A1-036
Lab ID #	6084	6085	6086
Percent Moisture	19	14	23
Dilution Factor	2	5	1
PCB	MDL ug/kg		
Aroclor-1016	33	U	U
Aroclor-1221	67	U	U
Aroclor-1232	33	U	U
Aroclor-1242	33	U	U
Aroclor-1248	33	U	U
Aroclor-1254	33	450	820
Aroclor-1260	33	140 J	640
Total PCB	(mg/kg)	0.59 J	1.5
			0.47 J

UJ- Analyte was not detected. The reported quantitation limit is qualified estimated.

U - Non-detected compound.

B - Detected in the corresponding method blank

J - Estimated Value

JN - Presumptive evidence of a compound at an estimated value.

R - Rejected Compound

TABLE - 2 PCB DATA (Area 2)

SITE NAME: Cornell - Dubilier Electronics

SAMPLING DATE: May 4 and 5, 1998

UNITS: ug/kg

Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #	A2-001	A2-002	A2-003	A2-004	A2-005	A2-006	A2-007	A2-008	A2-009
Lab ID #	6088	6089	6090	6091	6092	6093	6094	6179	6180
Percent Moisture	23	22	23	23	17	26	20	24	24
Dilution Factor	1	1	1	1	1	1	1	4	1
PCB	MDL ug/kg								
Aroclor-1016	33	U	U	U	U	U	U	U	U
Aroclor-1221	67	U	U	U	U	U	U	U	U
Aroclor-1232	33	U	U	U	U	U	U	U	U
Aroclor-1242	33	U	U	U	U	U	U	U	U
Aroclor-1248	33	U	U	U	U	U	U	U	U
Aroclor-1254	33	250	220	270	250	22 J	690	480	500
Aroclor-1260	33	94	58 J	91	89	U	130 J	120 J	140 J
Total PCB	(mg/kg)	0.34	0.28 J	0.36	0.34	0.022 J	0.82 J	0.60 J	0.64 J
									0.17

Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #	A2-010	A2-011	A2-012	A2-013	A2-014	A2-015	A2-016
Lab ID #	6181	6182	6183	6184	6185	6186	6187
Percent Moisture	19	17	17	19	21	23	24
Dilution Factor	1	1	1	1	20	10	10
PCB	MDL ug/kg						
Aroclor-1016	33	U	U	U	U	U	U
Aroclor-1221	67	U	U	U	U	U	U
Aroclor-1232	33	U	U	U	U	U	U
Aroclor-1242	33	U	U	U	U	U	U
Aroclor-1248	33	U	U	U	U	U	U
Aroclor-1254	33	230	270	60	210	990 J	1500
Aroclor-1260	33	56 J	81 J	31 J	58 J	U	750
Total PCB	(mg/kg)	0.29 J	0.35 J	0.091 J	0.27 J	0.99 J	2.3
							0.53 J

U - Non-detected compound.

B - Detected in the corresponding method blank

J - Estimated Value

JN - Presumptive evidence of a compound at an estimated value.

R - Rejected Compound

UJ- Analyte was not detected. The reported quantitation limit is qualified estimated.

TABLE - 3 PCB DATA (Area 3)

SITE NAME: Cornell - Dubilier Electronics

SAMPLING DATE: May 5, 1998

UNITS: ug/kg

Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #	A3 - 001	A3 - 002	A3 - 003	A3 - 004	A3 - 005	A3 - 006	A3 - 007	A3 - 008
Lab ID #	6188	6189	6190	6191	6192	6193	6194	6195
Percent Moisture	19	25	20	19	21	19	19	27
Dilution Factor	1	1	2	20	1	1	1	2
PCB	MDL ug/kg							
Aroclor-1016	33	U	U	U	U	U	U	U
Aroclor-1221	67	U	U	U	U	U	U	U
Aroclor-1232	33	U	U	U	U	U	U	U
Aroclor-1242	33	U	U	U	U	U	U	U
Aroclor-1248	33	U	U	U	U	U	U	U
Aroclor-1254	33	85 J	360	390	930 J	250	330	260 J
Aroclor-1260	33	32 J	120 J	130	U	90	73 J	140 J
Total PCB	(mg/kg)	0.12 J	0.48 J	0.52	0.93 J	0.34	0.40 J	0.40 J
								0.54 J

Matrix	Soil	Soil
Client ID #	A3 - 009	A3 - 010
Lab ID #	6196	6197
Percent Moisture	22	19
Dilution Factor	10	10
PCB	MDL ug/kg	
Aroclor-1016	33	U
Aroclor-1221	67	U
Aroclor-1232	33	U
Aroclor-1242	33	U
Aroclor-1248	33	U
Aroclor-1254	33	700 J
Aroclor-1260	33	U
Total PCB	(mg/kg)	0.70 J
		0.35 J

UJ- Analyte was not detected. The reported quantitation limit qualified estimated.

U - Non-detected compound.

B - Detected in the corresponding method blank

J - Estimated Value

JN - Presumptive evidence of a compound at an estimated value.

R - Rejected Compound

TABLE - 4 PCB DATA (Area 4)

SITE NAME: Cornell - Dubilier Electronics

SAMPLING DATE: May 5, 1998

UNITS: ug/kg

Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #	A4-001	A4-002	A4-003	A4-004	A4-005	A4-006	A4-007	A4-008	A4-009
Lab ID #	6198	6199	6200	6201	6202	6203	6204	6205	6206
Percent Moisture	20	21	20	19	22	20	22	18	22
Dilution Factor	1	1	1	10	2	2	1	1	4
PCB	MDL ug/kg								
Aroclor-1016	33	U	U	U	U	U	U	U	U
Aroclor-1221	67	U	U	U	U	U	U	U	U
Aroclor-1232	33	U	U	U	U	U	U	U	U
Aroclor-1242	33	U	U	U	U	U	U	U	U
Aroclor-1248	33	U	U	U	U	U	U	U	U
Aroclor-1254	33	270	300	140	1200 J	390	400	37 J	65
Aroclor-1260	33	110	110	69	170 J	98 J	110 J	17 J	24 J
Total PCB	(mg/kg)	0.38	0.41	0.21	1.4 J	0.49 J	0.51 J	0.054 J	0.89 J
									1.1 J

Matrix	Soil	Soil
Client ID #	A4-010	A4-011
Lab ID #	6207	6208
Percent Moisture	26	9
Dilution Factor	1	1
PCB	MDL ug/kg	
Aroclor-1016	33	U
Aroclor-1221	67	U
Aroclor-1232	33	U
Aroclor-1242	33	U
Aroclor-1248	33	U
Aroclor-1254	33	270
Aroclor-1260	33	100
Total PCB (Mg/Kg)	(mg/kg)	0.37
		0.17 J

UJ- Analyte was not detected. The reported quantitation limit is qualified estimated.

U - Non-detected compound.

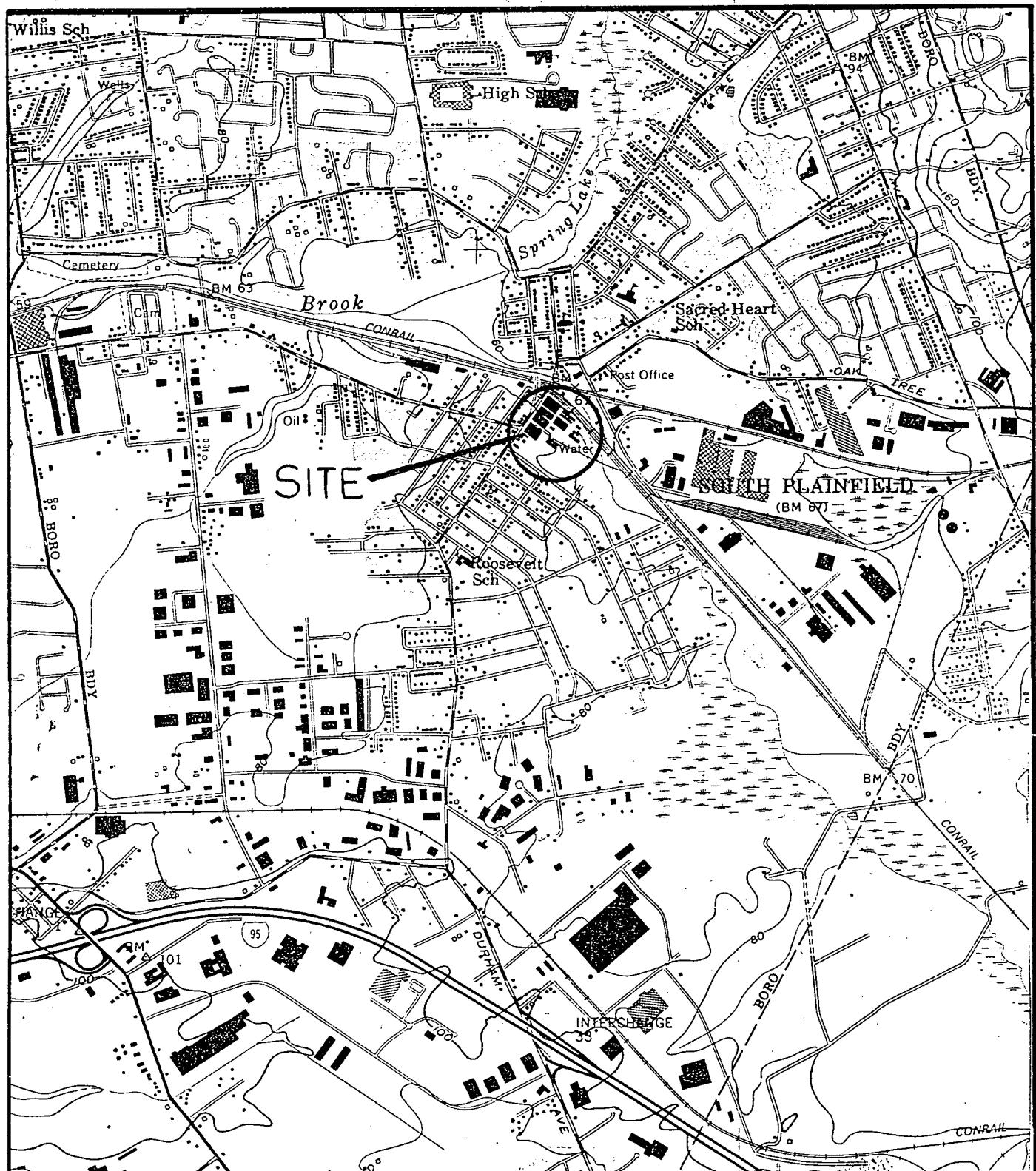
B - Detected in the corresponding method blank

J - Estimated Value

JN - Presumptive evidence of a compound at an estimated value.

R - Rejected Compound

APPENDIX 1
SITE MAPS/FIGURES



Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION

EPA/TM

E. WILSON

CORNELL-DUBILIER
ELECTRONICS
S. PLAINFIELD, NJ

IN ASSOCIATION WITH RESOURCE APPLICATION, Inc.
C.C. JOHNSON & MALHOTRA, P.C., R.E. SARRIERA ASSOCIATES,
PRC ENVIRONMENTAL MANAGEMENT, AND GRB ENVIRONMENTAL SERVICES, INC.

START PM
M. MAHNKOPF

FIGURE 1
SITE LOCATION
MAP

APPENDIX 2

TRIP REPORT - MAY 7, 1998



Roy F. Weston, Inc.
Federal Programs Division
Suite 201
1090 King Georges Post Road
Edison, New Jersey 08837-3703
908-225-6116 • Fax 908-225-7037

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019

May 7, 1998

Mr. Eric Wilson
U.S. Environmental Protection Agency
Removal Action Branch
2890 Woodbridge Avenue
Edison, New Jersey 08837

TDD NO: 02-97-02-0015

DCN NO: START-02-F-01817

SUBJECT: NEIGHBORHOOD SCREENING SOIL SAMPLING TRIP REPORT

CORNELL-DUBILIER ELECTRONICS,
SOUTH PLAINFIELD, NEW JERSEY

Dear Mr. Wilson:

Enclosed please find one (1) copy of the Sampling Trip Report for the neighborhood screening soil sampling conducted at the above referenced site on May 4 and 5, 1998. If you have any questions or comments, please contact me at (732) 225-6116.

Sincerely,

ROY F. WESTON, INC.

Thomas Dill Jr.

Michael Mahnkopf
Project Manager

Enclosure

SAMPLING TRIP REPORT

SITE NAME: Cornell-Dubilier Electronics
DCN #: START-02-F-01817
TDD #: 02-97-02-0015

SAMPLING DATE: May 4 and 5, 1998

EPA I.D. NO.: GZ

1. **Site Location:** Former Cornell-Dubilier Electronics
333 Hamilton Boulevard, South Plainfield, New Jersey
(See Figure 1). Specifically, surface (0-2") soil samples were collected at 100' intervals from the following areas:
 1. Area bounded on the northeast by Delmore Avenue, on the south by Belmont Avenue, on the southwest by Arlington Avenue, and on the northwest by Hamilton Boulevard (Area 1);
 2. Area located on the northeast side of Delmore Avenue, between Fulton Street and Belmont Avenue (Area 2);
 3. Area located on the south side of Belmont Avenue between Arlington Avenue and Metuchen Road (Area 3);
 4. Area located on the southeast side of Hancock Street between Lakeview and Amboy Avenues (Area 4).
2. **Sample Descriptions:** Eighty-two (82) surface soil samples (including field duplicates and MS/MSD's) and two (2) field rinsate blanks were collected and submitted for total polychlorinated biphenyl (PCB) analysis. See Tables 1 and 2 for additional information.
3. **Laboratory Receiving Samples:**

<u>Analysis</u>	<u>Name and Address of Laboratory</u>
Total PCBs	Ecology & Environment 4493 Walden Ave. Lancasters, NY 14086 (716) 685-8080

4. Sample Dispatch Data:

On May 4, 1998, a total of fifty (50) samples were shipped by Region II START personnel, via Federal Express (airbill No.'s 4811728972 and 9791914914), to Ecology & Environment, Lancaster, NY.

On May 5, 1998, a total of thirty-four (34) samples were shipped by Region II START personnel, via Federal Express (airbill No. 4811728983), to Ecology & Environment, Lancaster, NY.

5. On-Site Personnel:

<u>Name</u>	<u>Representing</u>	<u>Duties on Site</u>
Eric Wilson	U.S. EPA	On-Scene Coordinator
Thomas O'Neill	Region II START	Sample Management
Sharron DaCosta	Region II START	Sample Technician
Harry Allen	Region II START	Sample Technician

6. Additional Comments:

On May 4 and 5, 1998, a total of eighty-two (82) soil samples were collected from seventy-four (74) sample locations. The eighty-two (82) samples included seventy-four (74) surface soil samples, four (4) field duplicates and four (4) matrix spike/matrix spike duplicate samples. All samples were collected with dedicated plastic scoops/spatulas. Additionally, two (2) field rinsate blanks were generated and submitted for laboratory analysis.

Where necessary and prior to sample collection, non-dedicated stainless steel spackle knives and trowels were utilized to remove the top layer of grass at sample locations.

The stainless steel spackle knives and trowels were decontaminated between sample locations using a detergent (Alconox)/water solution, followed by a tap water rinse.

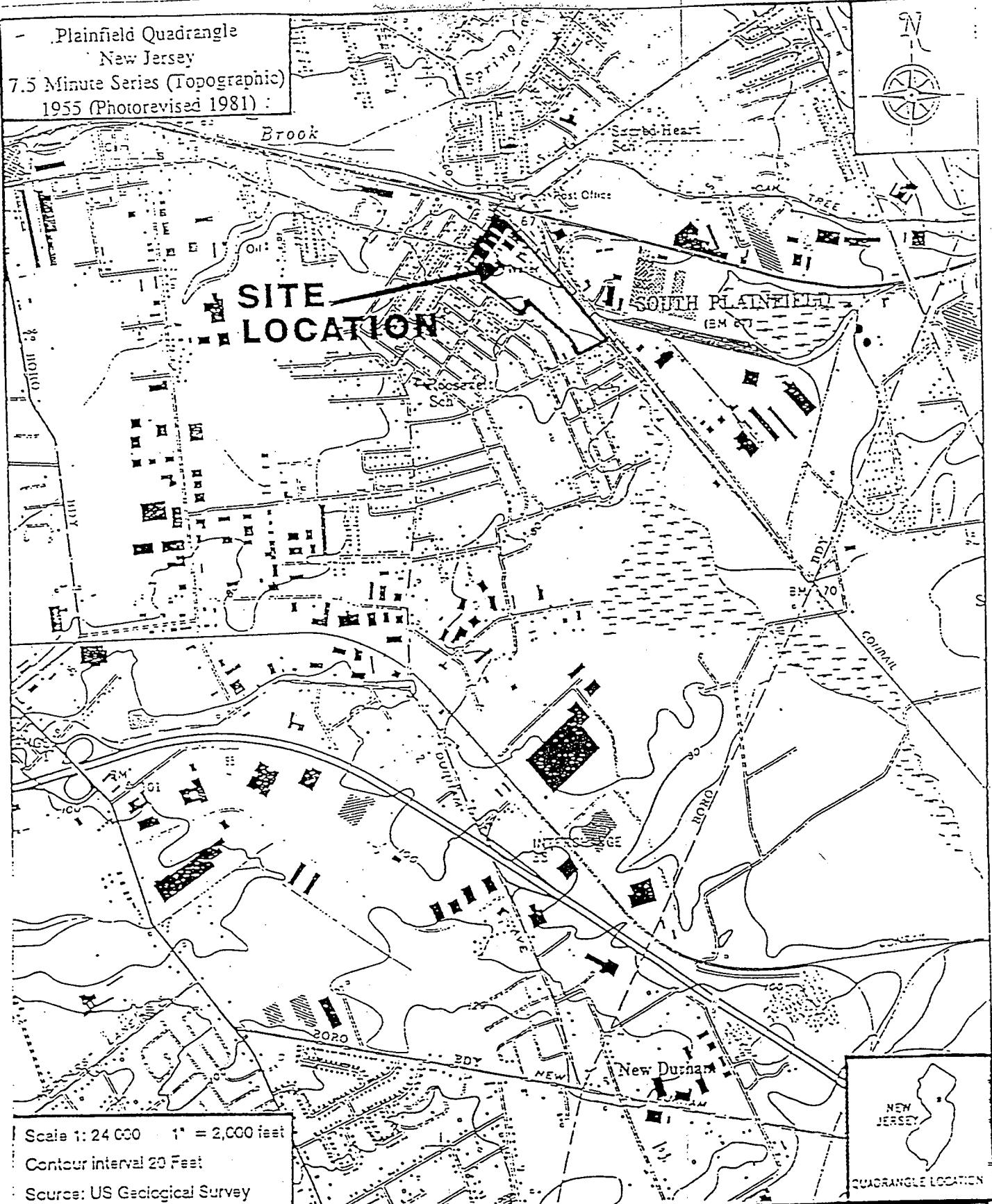
Enclosed as Attachment A are copies of the chain of custody records.

7. Report prepared by: Michael Mahnkopf *M.M.* Date: May 7, 1998
8. Report reviewed by: Thomas O'Neill *(TP)* Date: May 7, 1998

Plainfield Quadrangle
New Jersey
7.5 Minute Series (Topographic)
1955 (Photorevised 1981)



SITE LOCATION



Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION

IN ASSOCIATION WITH RESOURCE APPLICATION, Inc.
C.C. JOHNSON & MALHOTRA, P.C., R.E. SARRIERA ASSOCIATES,
PRC ENVIRONMENTAL MANAGEMENT, AND GRB ENVIRONMENTAL SERVICES, INC.

EPATM
E. WILSON

START PM
M. MAHNKOPF

CORNELL-DUBILIER
ELECTRONICS
S. PLAINFIELD, NJ

FIGURE 1
SITE LOCATION
MAP

TABLE 1

CORNELL-DUBILIER ELECTRONICS
SOUTH PLAINFIELD, NJ
RESIDENTIAL SOIL SAMPLING & ANALYSIS

MAY 4, 1998

SAMPLE ID	MATRIX	DEPTH	DATE/ TIME	ANALYSIS	LOCATION
A1-001	Soil	0-2"	05/04/98 1105 hrs.	Total PCB	611 Hamilton Blvd.
A1-002	Soil	0-2"	05/04/98 1113 hrs.	Total PCB	109 Arlington Ave.
A1-003	Soil	0-2"	05/04/98 1115 hrs.	Total PCB	117 Arlington Ave.
A1-004	Soil	0-2"	05/04/98 1125 hrs.	Total PCB	133 Arlington Ave.
A1-005	Soil	0-2"	05/04/98 1135 hrs.	Total PCB	136 Delmore Ave.
A1-006	Soil	0-2"	05/04/98 1142 hrs.	Total PCB	613 Garibaldi Ave.
A1-007	Soil	0-2"	05/04/98 1155 hrs.	Total PCB	613 Garibaldi Ave., Block 339, Lot 3
A1-007A	Soil	0-2"	05/04/98 1547 hrs.	Total PCB	217 Arlington Ave.
A1-007B	Soil	0-2"	05/04/98 1545 hrs.	Total PCB	224 Delmore Ave., Block 339, Lot 5
A1-007B MS/MSD	Soil	0-2"	05/04/98 1545 hrs.	Total PCB	Matrix spike/matrix spike dupl.
A1-007C	Soil	0-2"	05/04/98 1545 hrs.	Total PCB	Duplicate of A1-007B
A1-008	Soil	0-2"	05/04/98 1202 hrs.	Total PCB	229 Arlington Ave.

TABLE I

CORNELL-DUBILIER ELECTRONICS
SOUTH PLAINFIELD, NJ
RESIDENTIAL SOIL SAMPLING & ANALYSIS

MAY 4, 1998

SAMPLE ID	MATRIX	DEPTH	DATE/ TIME	ANALYSIS	LOCATION
A1-009	Soil	0-2"	05/04/98 1209 hrs.	Total PCB	610 Fulton St.
A1-010	Soil	0-2"	05/04/98 1209 hrs.	Total PCB	609 Fulton St.
A1-011	Soil	0-2"	05/04/98 1230 hrs.	Total PCB	Block 340, Lot 4.01
A1-012	Soil	0-2"	05/04/98 1235 hrs.	Total PCB	Block 340, Lot 4.01
A1-013	Soil	0-2"	05/04/98 1245 hrs.	Total PCB	Block 340, Lot 4.01
A1-014	Soil	0-2"	05/04/98 1245 hrs.	Total PCB	Block 340, Lot 4.01
A1-015	Soil	0-2"	05/04/98 1232 hrs.	Total PCB	331 Arlington Ave.
A1-016	Soil	0-2"	05/04/98 1400 hrs.	Total PCB	805 Belmont Ave.
A1-017	Soil	0-2"	05/04/98 1400 hrs.	Total PCB	Block 340, Lot 4.01
A1-018	Soil	0-2"	05/04/98 1405 hrs.	Total PCB	Block 340, Lot 4.01
A1-019	Soil	0-2"	05/04/98 1410 hrs.	Total PCB	338 Delmore Ave.
A1-020	Soil	0-2"	05/04/98 1401 hrs.	Total PCB	Block 340, Lot 4.01

TABLE 1
CORNELL-DUBILIER ELECTRONICS
SOUTH PLAINFIELD, NJ
RESIDENTIAL SOIL SAMPLING & ANALYSIS

MAY 4, 1998

SAMPLE ID	MATRIX	DEPTH	DATE/ TIME	ANALYSIS	LOCATION
A1-021	Soil	0-2"	05/04/98 1412 hrs.	Total PCB	Block 340, Lot 4.01
A1-022	Soil	0-2"	05/04/98 1415 hrs.	Total PCB	310 Delmore Ave.
A1-023	Soil	0-2"	05/04/98 1420 hrs.	Total PCB	300 Delmore Ave.
A1-024	Soil	0-2"	05/04/98 1430 hrs.	Total PCB	240 Delmore Ave.
A1-025	Soil	0-2"	05/04/98 1415 hrs.	Total PCB	240 Delmore Ave.
A1-026	Soil	0-2"	05/04/98 1430 hrs.	Total PCB	228 Delmore Ave.
A1-027	Soil	0-2"	05/04/98 1440 hrs.	Total PCB	216 Delmore Ave.
A1-028	Soil	0-2"	05/04/98 1445 hrs.	Total PCB	210 Delmore Ave.
A1-029	Soil	0-2"	05/04/98 1445 hrs.	Total PCB	200 Delmore Ave.
A1-030	Soil	0-2"	05/04/98 1450 hrs.	Total PCB	136 Delmore Ave.
A1-031	Soil	0-2"	05/04/98 1435 hrs.	Total PCB	132 Delmore Ave.

TABLE 1
CORNELL-DUBILIER ELECTRONICS
SOUTH PLAINFIELD, NJ
RESIDENTIAL SOIL SAMPLING & ANALYSIS

MAY 4, 1998

SAMPLE ID	MATRIX	DEPTH	DATE/ TIME	ANALYSIS	LOCATION
A1-032	Soil	0-2"	05/04/98 1520 hrs.	Total PCB	124 Delmore Ave.
A1-033	Soil	0-2"	05/04/98 1512 hrs.	Total PCB	116 Delmore Ave.
A1-033 MS/MSD	Soil	0-2"	05/04/98 1512 hrs.	Total PCB	Matrix spike/ matrix spike dupl.
A1-034	Soil	0-2"	05/04/98 1515 hrs.	Total PCB	112 Delmore Ave.
A1-035	Soil	0-2"	05/04/98 1520 hrs.	Total PCB	601 Hamilton Blvd.
A1-036	Soil	0-2"	05/04/98 1105 hrs.	Total PCB	Duplicate of A1-001
A1-010A	Soil	0-2"	05/04/98 1250 hrs.	Total PCB	311 Arlington Ave.
A2-001	Soil	0-2"	05/04/98 1628 hrs.	Total PCB	357 Belmont Ave.
A2-002	Soil	0-2"	05/04/98 1632 hrs.	Total PCB	351 Delmore Ave.
A2-003	Soil	0-2"	05/04/98 1640 hrs.	Total PCB	347 Delmore Ave.
A2-004	Soil	0-2"	05/04/98 1635 hrs.	Total PCB	Block 335, Lot 8.01
A2-005	Soil	0-2"	05/04/98 1645 hrs.	Total PCB	323 Delmore

TABLE 1
CORNELL-DUBILIER ELECTRONICS
SOUTH PLAINFIELD, NJ
RESIDENTIAL SOIL SAMPLING & ANALYSIS

MAY 4, 1998

SAMPLE ID	MATRIX	DEPTH	DATE/ TIME	ANALYSIS	LOCATION
A2-006	Soil	0-2"	05/04/98 1652 hrs.	Total PCB	319 Delmore Ave.
A2-007	Soil	0-2"	05/04/98 1705 hrs.	Total PCB	301 Delmore Ave.
RB-1	Aqueous	N/A	05/04/98 1730 hrs.	Total PCB	Rinsate blank

TABLE 2

CORNELL-DUBILIER ELECTRONICS
SOUTH PLAINFIELD, NJ
RESIDENTIAL SOIL SAMPLING & ANALYSIS

MAY 5, 1998

SAMPLE ID	MATRIX	DEPTH	DATE/ TIME	ANALYSIS	LOCATION
A2-008	Soil	0-2"	05/05/98 0910 hrs.	Total PCB	Block 335, Lot 8.01
A2-008 MS/MSD	Soil	0-2"	05/05/98 0910 hrs.	Total PCB	Matrix spike/ Matrix spike dupl.
A2-009	Soil	0-2"	05/05/98 0920 hrs.	Total PCB	Block 335, Lot 8.01
A2-010	Soil	0-2"	05/05/98 0930 hrs.	Total PCB	Block 335, Lot 8.01
A2-011	Soil	0-2"	05/05/98 0920 hrs.	Total PCB	Block 335, Lot 8.01
A2-012	Soil	0-2"	05/05/98 0935 hrs.	Total PCB	Block 335, Lot 8.01
A2-013	Soil	0-2"	05/05/98 0925 hrs.	Total PCB	Block 335, Lot 8.01
A2-014	Soil	0-2"	05/05/98 0910 hrs.	Total PCB	315 Delmore Ave.
A2-015	Soil	0-2"	05/05/98 0935 hrs.	Total PCB	Block 335, Lot 1
A2-016	Soil	0-2"	05/05/98 0910 hrs.	Total PCB	Duplicate of A2-008
A3-001	Soil	0-2"	05/05/98 1000 hrs.	Total PCB	401 Arlington Ave.
A3-002	Soil	0-2"	05/05/98 1015 hrs.	Total PCB	400 Delmore Ave.

TABLE 2

CORNELL-DUBILIER ELECTRONICS
SOUTH PLAINFIELD, NJ
RESIDENTIAL SOIL SAMPLING & ANALYSIS

MAY 5, 1998

SAMPLE ID	MATRIX	DEPTH	DATE/ TIME	ANALYSIS	LOCATION
A3-003	Soil	0-2"	05/05/98 1035 hrs.	Total PCB	904 Belmont Ave.
A3-004	Soil	0-2"	05/05/98 1040 hrs.	Total PCB	910 Belmont Ave.
A3-005	Soil	0-2"	05/05/98 1050 hrs.	Total PCB	1000 Belmont Ave.
A3-006	Soil	0-2"	05/05/98 1105 hrs.	Total PCB	1112 Belmont Ave.
A3-007	Soil	0-2"	05/05/98 1135 hrs.	Total PCB	1124 Belmont Ave.
A3-008	Soil	0-2"	05/05/98 1130 hrs.	Total PCB	1126 Belmont Ave.
A3-009	Soil	0-2"	05/05/98 1135 hrs.	Total PCB	1126 Belmont Ave.
A3-010	Soil	0-2"	05/05/98 1125 hrs.	Total PCB	1130 Belmont Ave.
A1-003A	Soil	0-2"	05/05/98 1430 hrs.	Total PCB	127 Arlington Ave.
A4-001	Soil	0-2"	05/05/98 1315 hrs.	Total PCB	439 Hancock St., Easement
A4-001 MS/MSD	Soil	0-2"	05/05/98 1315 hrs.	Total PCB	Matrix spike/ Matrix spike dupl.
A4-002	Soil	0-2"	05/05/98 1320 hrs.	Total PCB	439 Hancock St., Easement

TABLE 2
 CORNELL-DÜBILIER ELECTRONICS
 SOUTH PLAINFIELD, NJ
 RESIDENTIAL SOIL SAMPLING & ANALYSIS

MAY 5, 1998

SAMPLE ID	MATRIX	DEPTH	DATE/ TIME	ANALYSIS	LOCATION
A4-003	Soil	0-2"	05/05/98 1325 hrs.	Total PCB	431 Hancock St., Easement
A4-004	Soil	0-2"	05/05/98 1332 hrs.	Total PCB	419 Hancock St.
A4-005	Soil	0-2"	05/05/98 1330 hrs.	Total PCB	413 Hancock St.
A4-006	Soil	0-2"	05/05/98 1440 hrs.	Total PCB	409 Hancock St.
A4-007	Soil	0-2"	05/05/98 1350 hrs.	Total PCB	337 Hancock St., Easement
A4-008	Soil	0-2"	05/05/98 1405 hrs.	Total PCB	329 Hancock St., Easement
A4-009	Soil	0-2"	05/05/98 1300 hrs.	Total PCB	321 Hancock St.
A4-010	Soil	0-2"	05/05/98 1315 hrs.	Total PCB	Duplicate of A4-001
A4-011	Soil	0-2"	05/05/98 1415 hrs.	Total PCB	321 Hancock St.
RB-2	Aqueous	N/A	05/05/98 1515 hrs.	Total PCB	Rinsate blank

ATTACHMENT 1

CHAIN OF CUSTODY RECORDS

REF. No.:

CHAIN OF CUSTODY RECORD

2535

PO. No.:

92116



SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

EPA CONTRACT 68-WT-0019

Phone: 908-225-6116 Fax: 908-225-7037

Matrix Box No.:

Preservative Box No.:

1. Surface Water
 2. Ground Water
 3. Leachate
 4. Rainwater
 5. Soil/Sediment
 6. Oil
 7. Waste
 8. Other (Specify)
- * See Comments

Send verbal and written results to:

Roy F. Weston, Inc., USEPA Region II START

Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703

Attention: Smita Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix Code	Coac. Low-L Med-M High-H	Sample Type Comp-C Polar Grab-G	Sample Process box A box B	CIA ANALYSIS			RCRA ANALYSIS			OTHER
						VOA	RNA	EST	PCP	TAL	CN	
A1-001	3/4/98 1105	5	L	G	C					X		
A1-002		1113								X		
A1-003		1115								X		
A1-004		1125								X		
A1-005		1135								X		
A1-006		1142								X		
A1-007		1155								X		
A1-007A		1547								X		
A1-007B		1545								X		m/s/m/s (2)
A1-007D		1545								X		
A1-008	↓	1202	↓	↓	↓	↓	↓	↓	↓	X		

Comments:

5 pt. calibration using Al/Acelor 1254 STD.

m/s/m/s @ A1-007B

Person Assuming Responsibility for Sample:

Tom O'Neil

Time (MM/DD/YY)

1800

5/4/98

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
A11	Thomas O'Neil	800	5/4/98		
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Sartori Associates, PRC Environmental

Management, C.C. Johnson & Associates, D.C. and G.P.C. Environmental

REF ID:

CHAIN OF CUSTODY RECORD

2535

PO No.:

92116



SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT #3-W3-0019
Phone: 904-225-6116 Fax: 904-225-7037

Matrix Box No.:

Procedure Box No.:

- | | |
|--------------------|------------------------------------|
| 1. Surface Water | 1. HCl |
| 2. Ground Water | 2. HNO ₃ |
| 3. Leachate | 3. Na ₂ SO ₄ |
| 4. Plumes | 4. H ₂ SO ₄ |
| 5. Soil/Sediment | 5. Other (Specify) |
| 6. Oil | 6. Ice Only |
| 7. Waste | 7. Not Preserved |
| 8. Other (Specify) | 8. See Comments |

Send verbal and written results to:

Roy F. Weston, Inc., USEPA Region II START

Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix	Coac. Level	Sample Type	Sample Preserv. (Box #)	TRAS ANALYSIS			RCRA ANALYSIS			OTHER
						VOC	RNA	PCP	TAL	CY	XEN	
A1-009	5/11/98 1301	5 L	G	6		X						
A1-010		1309							X			
A1-011		1230							X			
A1-012		1235							X			
A1-013		1245							X			
A1-014		1245							X			
A1-015		1232							X			
A1-016		1400							X			
A1-017		1400							X			
A1-018		1405							X			
A1-019	✓	1410	✓	✓	✓	✓	✓	✓	✓			

Comments:

5 pt calibration using Alumina 254 STD

Person Assuming Responsibility for Sample:

*Tom O'keil*Time (MM/DD/YY)
1800 5/14/98

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
A1	Thomas O'keil	1800	5/14/98		

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Sartori Associates, PRC Environmental

Management, C.C. Johnson & Associates, D.C. Environmental Services, Inc.

REF ID:

CHAIN OF CUSTODY RECORD

Z535
92116

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 904-725-5116 Fax: 904-725-7037

Matrix Box No.:

Preservative Box No.:

1. Surface Water
 2. Ground Water
 3. Leachate
 4. Rainwater
 5. Soil/Sediment
 6. Oil
 7. Waste
 8. Other (Specify)
- N. Not Preserved
• See Comments

Send verbal and written results to:

Roy F. Weston, Inc., USEPA Region II START

Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703

Attention: Smith Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix Other box A	Conc. Low-L Med-M High-H	Sample Type Comp-C Other box A	Sample Preserv. (box box A)	RGA ANALYSIS				RCRA ANALYSIS				OTHER
						VOC	DNA	PCP	TAL	CN	IGN	COR	REAC	
A1-020	5/14/98 1401	5	C	G	6					X				
A1-021		1412								X				
A1-022		1415								X				
A1-023		1420								X				
A1-024		1430								X				
A1-025		1415								X				
A1-026		1430								X				
A1-027		1440								X				
A1-028		1445								X				
A1-029		1445								X				
A1-030	↓	1450	↓	↓	↓	↓	↓	↓	↓	X				

Comments:

Spt. Calibration Using Alpacor 1254 STD

Person Assuming Responsibility for Sample:

Tom O'Neil

Time (MM/DD/YY)
1800 5/14/98

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
A11	Thomas Stoll	1800	5/14/98		
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Sartore Associates, PRC Environmental

Management, C.C. Johnson & Associates, Inc., and G.R. Environmental Services, Inc.

REF ID:

CHAIN OF CUSTODY RECORD

2535

PO No:

92116



SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W3-0019
Phone: 904-225-5116 Fax: 904-225-7037

Matrix Box No.:

Preservative Box No.:

- | | |
|--------------------|------------------------------------|
| 1. Surface Water | 1. HCl |
| 2. Ground Water | 2. HNO ₃ |
| 3. Leachate | 3. Na ₂ SO ₄ |
| 4. Rinsates | 4. H ₂ SO ₄ |
| 5. Soil/Sediment | 5. Other (Specify) |
| 6. Oil | 6. Ice Only |
| 7. Waste | N. Not Preserved |
| 8. Other (Specify) | * See Comments |

Send verbal and written results to:

Roy F. Weston, Inc., USEPA Region II START

Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703

Attention: Smita Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix	Cocc. Low-L Mod-H High-H	Sample Type Comp-C Grab-G	Sample Power. Box #1 Box #2	XANALYSIS			RCRA ANALYSIS			OTHER
						VOA	DNA	EST/PCW	TAL/CN	XEN	COR	
A1-031	5/4/98 1435	5	L	G 6					X			
A1-032		1520							X			
A1-033		1512							X			ms/msd (2)
A1-034		1515							X			
A1-035		1520							X			
A1-036		1105							X			
A1-004	✓	1250	✓	✓	✓	✓	✓	✓	X			
A2-001		1628							X			
A2-002		1632							X			
A2-003		1640							X			
A2-004	✓	1635	✓	✓	✓	✓	✓	✓	X			

Comments: 5 pt. calibration using stockler 1254 STD

MS/MSD for A1-033

Person Assuming Responsibility for Sample:

Tom O'Neil

Time	Date (MM/DD/YY)
1800	5/4/98

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
A11	Tom O'Neil	1800	5/4/98		

Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Services Associates, PRC Environmental

Management, C.C. Johnson & Associates, Inc., and GPT Environmental

REPLICA:

CHAIN OF CUSTODY RECORD

2535

PO No.:
G2116



SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-WS-0019
Phone 904-225-5116 FILE 904-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HNO ₃
3. Leachate	3. Na ₂ SO ₄
4. Rainwater	4. H ₂ SO ₄
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	• See Comments

Send verbal and written results to:

Roy F. Weston, Inc., USEPA Region II START

Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703

Attention: Smita Sumbaly, START Analytical Coordinator

Comments:

5 pt Calibration Using Blocker 1254 STD

Person Assuming Responsibility for Sample:

Tom O'Neil

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Curacy
All	Rexx Shaff	1800	5/4/98		
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Curacy
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Curacy

Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Sartore Associates, PRC Environmental Management, C.C. Johnson & Associates, D.C. and GPR Environmental Services, Inc.

REF No.:	2535
PO. No.:	92116

CHAIN OF CUSTODY RECORD



SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W3-0019
Phone: 904-225-6116 Fax: 904-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HNO3
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

1 of 3

Send verbal and written results to:

Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumichal, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Outer box #)	Coac. Mod-M	Sample Type Comp-C (Outer box #)	Sample Preserv. (Outer box #)	QALY ANALYSIS			RCRA ANALYSIS			Comments
						VOA	ENR	TEST	PCP	TALC	CN	
A2-008	5/5/98 0910	5	L	G	10					X		ms/msd (2)
A2-009	0920									X		
A2-010	0930									X		
A2-011	0930									X		
A2-012	0935									X		
A2-013	0925									X		
A2-014	0910									X		
A2-015	0935									X		
A2-016 A2-016 A2-016	0910									X		
A3-001	1000									X		
A3-002	1015	↓	↓	↓	↓	↓	↓	↓	↓	X		

Comments:

ms/msd at A2-008

5pt calibration using Glacialic 1254 STD

Person Assuming Responsibility for Sample:

T. O'Neill

Time Date (MM/DD/YY)
1630 5/5/98

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
A1	Thomas O'Neill	1530	5/5/98		
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Services Associates, PRC Environmental

Management, C.C. Johnson & McElroy, Inc., and GRS Environmental

RFP No.:

2535

PO No.:

92116

CHAIN OF CUSTODY RECORD



SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 63-W3-0019
Phone: 904-225-6116 Fax: 904-225-7037

2/23

Matrix Box No.:

Procedural Box No.:

1. Surface Water
2. Ground Water
3. Leachate
4. Rinsate
5. Soil/Sediment
6. Oil
7. Waste
8. Other (Specify) • See Comments

Send verbal and written results to:

Roy F. Weston, Inc., USEPA Region II START

Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703

Attention: Smita Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Coac. Matrix (Color box #)	Sample Coac. Matrix (Color box #)	Sample Type Recovery (Color box #)	QAT ANALYSIS				RCRA ANALYSIS			Other
					VOA	BMA	TEST/PCW	TAL/CN	XGN	COR	REAC	
A3-003	5/5/98 1035	5 L	G G						X			
A3-004	1040								X			
A3-005	1050								X			
A3-006	1105								X			
A3-007	1135								X			
A3-008	1130								X			
A3-009	1135								X			
A3-010	1125								X			
A4-003A	1430								X			
A4-001	1315								X			
A4-002	1320	↓	↓	↓	↓	↓	↓	↓	X			ms/msd (2)

Comments:

ms/msd at A4-001

5 pt. Calibration using AAC16e 254 STD

Person Assuming Responsibility for Sample:

T. O'Neill

Time Date (MM/DD/YY)
1630 5/5/98

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
A11	Thomas O'Neill	1530	5/5/98		

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Sartori Associates, PRC Environmental

Management, C.C. Johnson & Associates, P.C. ...

REF ID:
Q535
PO No.:
92116

CHAIN OF CUSTODY RECORD



SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT #3-FS-0019
Phone: 904-225-6116 Fax: 904-225-7017

3 of 3

Matrix Box No.:

Preservative Box No.:

- | | |
|--------------------|--------------------|
| 1. Surface Water | 1. HCl |
| 2. Ground Water | 2. HNO3 |
| 3. Leachate | 3. Na2SO4 |
| 4. Rinsate | 4. H2SO4 |
| 5. Soil/Sediment | 5. Other (Specify) |
| 6. Oil | 6. Ice Only |
| 7. Waste | 7. Not Preserved |
| 8. Other (Specify) | 8. See Comments |

Send verbal and written results to:

Roy F. Weston, Inc., USEPA Region II START

Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703

Attention: Smita Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix Conc. Conc.	Conc. Low-L Med-M High-H	Sample Type Present Comp-C Extr Orab-G	Sample Present Extr box A box A)	QUA ANALYSIS						RCRA ANALYSIS				OTHER
						VOA	BHA	TEST	PCM	TAL	CN	IGN	COR	REAC		
A4-003	5/5/98 1325			5	L	G					X					
A4-004	1332															
A4-005	1330															
A4-006	1440															
A4-007	1350															
A4-008	1405															
A4-009	1300															
A4-010	1315															
A4-011	1415															
RB-2	1515			↓	↓	↓	↓	↓	↓	↓						

Comments:

5 pt calibration using #1 before 1254 STD

Person Assuming Responsibility for Sample:

T. O'Neill

Time Date (MM/DD/YY)
1630 5/5/98

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
A11	Trans QHill	1530	5/5/98		

Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Services Associates, PRC Environmental Management, C.C. Johnson & Associates, D.C. and GPC Environmental

APPENDIX 3

ANALYTICAL RESULTS (FORM I's)

&

DATA VALIDATION RESULTS



Roy F. Weston, Inc.
Federal Programs Division
Suite 201
1090 King Georges Post Road
Edison, New Jersey 08837-3703
908-225-6116 • Fax 908-225-7037

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019

DATA QUALITY OBJECTIVE

**DOCUMENT CONTROL NO.: START-02-F-01817
CORNELL DUBILIER ELECTRONICS
PROJECT NO.: 2523**

**SAMPLING DATE MAY 4,1998
SAMPLING GROUP: 6041, 6068 & 6088**

**REPORTED BY
ROY F. WESTON, INC.**

REVIEWED BY: Zohreh Hamid

**Zohreh Hamid, Ph.D.
Senior Chemist**

6-14-98

Date



**CORNELL DUBILIER ELECTRONICS****PROJECT NUMBER: 2523****DCN: START-02-F-01817****SAMPLING DATE 5-4-98****INTRODUCTION**

This quality assurance review is based upon a review of all data generated from forty seven soil samples, including two sets of field duplicates, and one reagent blank, collected on 05-04-98. The samples received on 05-05-98 by Ecology & Environment, Inc. (E & E) Laboratory, located in Lancaster, New York. The samples were grouped in three different SDG numbers by the laboratory, and analyzed according to the criteria set forth in SW846 Method 8082, for Poly Chlorinated Biphenyl (PCB) target compounds. The samples are tabulated in the following:

SDG NUMBER	SAMPLE ID
6041	A1-001 to A1-017 & A1-007A to A1-007C
6068	A1-018 to A1-036 & A1-010A
6088	A2-001 to A2-007 & RB-1

Two sets of MS/MSD samples were analyzed on samples A1-007B & A1-033.

All data have been validated with regard to usability according to USEPA Region II Functional Guidelines and the Quality Control criteria established in the applied Method. If you have any questions or comments on this data review, please call Zohreh Hamid at (610) 269-9989.

QUALITY ASSURANCE REVIEW

The findings offered in this report are based upon a review of the following criteria:

- Holding Times
- Calibrations
- Blanks
- Surrogate Recoveries
- Standards Recovery
- Matrix Spike/Spike Duplicate/Blank Spike Analyses
- Instrument Performance
- Field Duplicate Result
- Sample Results
- Data Completeness



Site ID: Cornell Dubilier Electronics
Sampling Events: 5-4-1998

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HOLDING TIME

All samples were extracted/analyzed within the Region II requirements.

CALIBRATIONS

A five-point calibration analysis was performed for aroclor-1016, aroclor-1254 and aroclor-1260. The percent RSDs were within the control limits of 20% at least in one column. Also, aroclor-1254 and aroclor-1660 were analyzed as continuing calibrations. The %Ds were within the control limits of less than 15% for all standards analyzed on primary and secondary columns.

The calibration blanks were not analyzed during the initial and continuing calibrations. However, the cross contamination was not expected, since "hexane" was analyzed prior to each calibration standard. The chromatogram for hexane was free of target compound peaks.

BLANK ANALYSIS

The preparation blanks and reagent blank were free of target compounds.

MATRIX SPIKE/SPIKE DUPLICATE ANALYSIS

Two sets of matrix spike/spike duplicate analyses were performed. The recoveries were within the control limits of 50-150, with the exception of aroclor-1254 recovery in A1-007BMS (13.8%). The recovery of the corresponding A1-007BMSD was within the control limits. Consequently, the RPD (165) exceeded the QC limit of 35%. The data were not impacted, since the recoveries were within the control limits in the other QC sample.

One set of blank spike/spike duplicate samples (BS/BSD) was analyzed for each matrix. The recoveries were within the control limits with the exception of blank spike recovery (47.9%) in soil blank matrix spike. Also the RPD (48.6) exceeded the control limits. The data were not impacted since the deviation was marginal.

STANDARD RECOVERY

All external standard recoveries and retention times in the initial and continuing calibrations were within the control limits on the primary and secondary columns.



Site ID: Cornell Dubilier Electronics

Sampling Events: 5-4-98

Page 3

SURROGATE RECOVERIES

The surrogate recoveries for TCX and DCB were within the control limits of 30-150% range with the exception of the following DCB surrogate compound recoveries:

Sample ID	Column #1	Column #2
A1-004	194	153
A1-007B	164	163
A1-007B MSD	178	174
A1-007C		167
A1-025		153
A1-029	179	180

Also, the recoveries of TCX surrogate compound in water blank (16/16%) were below the control limits of 50% on both column. The data for the above samples were not qualified, since at least one surrogate compound met the requirements.

The surrogate recoveries were diluted out in sample A1-002. Therefore, the retention times for TCX & DCB could not be evaluated. The sample data were not qualified based on these advisory limits.

DUPLICATE ANALYSIS

Two sets of field duplicate sample analyses were performed for these samples. The RPDs were listed in the following:

Sample IDs	Compound Name	Field Sample Result	Field Dup Results	RPD
A1-001/036	Aroclor-1254	470	360	27
	Arclor-1260	150	110	30
A1-007B/007C	Aroclor-1254	790	580	31
	Aroclor-1260	380	300	24

The RPDs demonstrated the acceptable reproducibility for this matrix/analysis.



Site ID: Cornell Dubilier Electronics

Sampling Events: 5-4-98

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SAMPLE RESULTS

The results were reported from two different columns. The %Ds for the reported results was within the validation requirement limit of 50% with the exception of the following:

Sample ID	Compound Name	%D
A1-001	Ar-1254	53
	Ar-1260	60
A1-004	Ar-1254	226
A1-005	Ar-1254	92
	Ar-1260	53
A1-007B	Ar-1260	79
A1-007C	Ar-1260	73
A1-008	Ar-1254	100
A1-009	Ar-1254	94
A1-013	Ar-1260	146
AR-014	Ar-1260	68
A1-015	Ar-1260	83
A1-017	Ar-1260	62
A1-018	Ar-1260	86
A1-019	Ar-1260	53
A1-020	Ar-1260	54
A1-022	Ar-1260	80
A1-024	Ar-1254	288
A1-025	AR-1254	117
A1-026	Ar-1254	118
	Ar-1260	65
A1-027	Ar-1260	100
A1-028	Ar-1260	96
A1-029	Ar-1260	108
A1-031	Ar-1260	65
A1-032	Ar-1260	64
A1-033	Ar-1260	59
A1-034	Ar-1260	79
A1-036	Ar-1260	55
A2-002	Ar-1260	210
A2-006	Ar-1260	108
A2-007	Ar-1260	75

Note: The sample results were flagged "P" by the laboratory for the %Ds above 25%. However, based on the validation requirements, the results were not qualified when the %D is less than 50%.

The reported results were contractually qualified estimated.



Site ID: Cornell Dubilier Electronics
Sampling Events: 5-4-98

Page 5

Several samples were analyzed at higher dilutions due to the high levels of aroclor-1254. The validation review of chromatograms and the quantitation reports demonstrated that the applied dilutions are appropriate. Therefore, the data quality was considered acceptable.

The results below the reporting limits were qualified estimated due to the uncertainty near the detection limits.

DATA COMPLETENESS

Sample A1-004 was analyzed on 5-20-98 @ 23:02. The calibration chromatograms were not included in the corresponding data package. The quality of the data was not impacted since the required documents were found in the analysis data reported under SDG number 6178.

SUMMARY

The cooler temperatures were within the control limits. The analysis data packages followed the CLP type data package deliverable format. The data package completeness was satisfactory. The sulfur clean up analysis performed. The results from both sets of primary and secondary analyses were listed on similar form X. The lower of two values was reported on the form I. Overall the data quality was satisfactory, and major problems were not encountered during the sample analysis. The minor issues have been discussed. The reported data were summarized on the data summary with the applied qualifier codes.



- 1. Appendix A- Glossary of Data Qualifier**
- 2. Appendix B- Data Summary Forms**
- 3. Appendix C- Laboratory Results (Form I)**
- 4. Appendix D - Support Documentation**



Appendix A

Glossary of Data Qualifier



GLOSSARY OF DATA QUALIFIERS

CODES RELATING TO IDENTIFICATION

(confidence concerning presence or absence of compounds):

- U** = NOT DETECTED SUBSTANTIALLY ABOVE THE LEVEL REPORTED IN LABORATORY OR FIELD BLANKS.
[Substantially is equivalent to a result less than 10 times the blank level for common contaminants (methylene chloride, acetone and 2- butanone in the VOA analyses, and common phthalates in the BNA analyses, along with tentatively identified compounds) or less than 5 times the blank level for other target compounds.]
- R** = UNUSABLE RESULT. THE PRESENCE OR ABSENCE OF THIS ANALYTE CANNOT BE VERIFIED. SUPPORTING DATA NECESSARY TO CONFIRM RESULT.
- N** = NEGATED COMPOUND. THERE IS PRESUMPTIVE EVIDENCE TO MAKE A TENTATIVE IDENTIFICATION.

CODES RELATING TO QUATITATION

(can be used for both positive results and sample quantitation limits):

- J** = ANALYTE WAS POSITIVELY IDENTIFIED. REPORTED VALUE MAY NOT BE ACCURATE OR PRECISE.
- UJ** = ANALYTE WAS NOT DETECTED. THE REPORTED QUATITATION LIMIT IS QUALIFIED ESTIMATED.

OTHER CODES

- Q** = NO ANALYTICAL RESULT.



Appendix B

Data Summary Forms

Polychlorinated Biphenyl (PCB) Analysis
Data summary

Site ID: Cornell - Dubilier Electronics
 Laboratory Name: E & E INC.
 Case No.: 2523
 SDG No.: 6041
 Units: ug/kg.

Sampling Date: May 4, 1998
 PM: Michael Mahnkopf
 DCN: START-02-F-01817

Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #	A1-001	A1 - 002	A1 - 003	A1 - 004	A1 - 005	A1 - 006	A1 - 007	A1 - 007A	A1 - 007B	
Lab ID #	6041	6042	6043	6044	6045	6046	6047	6048	6049	
Percent Moisture	23	21	22	24	30	21	24	21	23	
Dilution Factor	2	20	1	10	2	1	1	1	4	
PCB	MDL ug/kg									
Aroclor-1016	33	U	U	U	U	U	U	U	U	U
Aroclor-1221	67	U	U	U	U	U	U	U	U	U
Aroclor-1232	33	U	U	U	U	U	U	U	U	U
Aroclor-1242	33	U	U	U	U	U	U	U	U	U
Aroclor-1248	33	U	U	U	U	U	U	U	U	U
Aroclor-1254	33	470 J	2900	130	920 J	520 J	110	220	120	790
Aroclor-1260	33	150 J	U	69	U	170 J	U	81	62	380 J

Remark

Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #	A1 - 007C	A1 - 008	A1 - 009	A1 - 010	A1 - 011	A1 - 012	A1 - 013	A1 - 014	A1 - 015	
Lab ID #	6050	6051	6052	6053	6054	6055	6056	6057	6058	
Percent Moisture	22	23	17	19	31	28	37	33	27	
Dilution Factor	4	2	1	1	1	1	5	2	1	
PCB	MDL ug/kg									
Aroclor-1016	33	U	U	U	U	U	U	U	U	U
Aroclor-1221	67	U	U	U	U	U	U	U	U	U
Aroclor-1232	33	U	U	U	U	U	U	U	U	U
Aroclor-1242	33	U	U	U	U	U	U	U	U	U
Aroclor-1248	33	U	U	U	U	U	U	U	U	U
Aroclor-1254	33	580	490 J	46 J	27 J*	100	100	1100	650	170
Aroclor-1260	33	300 J	150	31 J*	U	51	46	220 J	190 J	60 J

Remark Field Dup

* Below the detection limits

Polychlorinated Biphenyl (PCB) Analysis
Data summary

Site ID: Cornell - Dubilier Electronics
Laboratory Name: E & E INC.
Case No.: 2523
SDG No.: 6041
Units: ug/kg

Sampling Date: May 4, 1998
PM: Michael Mahnkopf
DCN: START-02-F-01817

Matrix	Soil	Soil									
Client ID #	A1 - 016	A1 - 017									
Lab ID #	6059	6060									
Percent Moisture	17	30									
Dilution Factor	1	1									
PCB	MDL ug/kg										
Aroclor-1016	33	U	U								
Aroclor-1221	67	U	U								
Aroclor-1232	33	U	U								
Aroclor-1242	33	U	U								
Aroclor-1248	33	U	U								
Aroclor-1254	33	81	230								
Aroclor-1260	33	38 J*	69 J								

Remark

* Below the detection limits

Polychlorinated Biphenyl (PCB) Analysis
Data summary

Site ID: Cornell - Dubilier Electronics
 Laboratory Name: E & E INC.
 Case No.: 2523
 SDG No.: 6068
 Units: ug/kg

Sampling Date: May 4, 1998
 PM: Michael Mahnkopf
 DCN: START-02-F-01817

Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #	A1-018	A1 - 019	A1 - 020	A1 - 021	A1 - 022	A1 - 023	A1 - 024	A1 - 025	A1 - 026	
Lab ID #	6068	6069	6070	6071	6072	6073	6074	6075	6076	
Percent Moisture	22	19	24	30	19	22	26	24	25	
Dilution Factor	1	1	1	1	1	1	10	10	5	
PCB	MDL ug/kg									
Aroclor-1016	33	U	U	U	U	U	U	U	U	U
Aroclor-1221	67	U	U	U	U	U	U	U	U	U
Aroclor-1232	33	U	U	U	U	U	U	U	U	U
Aroclor-1242	33	U	U	U	U	U	U	U	U	U
Aroclor-1248	33	U	U	U	U	U	U	U	U	U
Aroclor-1254	33	180	130	99	290	81	220	850 J	1200 J	780 J
Aroclor-1260	33	58 J	38 J*	28 J*	98	25 J*	80	U	U	200 J*

Remark

Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #	A1 - 027	A1 - 028	A1 - 029	A1 - 030	A1 - 031	A1 - 032	A1 - 033	A1 - 034	A1 - 035	
Lab ID #	6077	6078	6079	6080	6081	6082	6083	6084	6085	
Percent Moisture	20	22	24	27	30	31	23	19	14	
Dilution Factor	1	1	1	2	2	1	4	2	5	
PCB	MDL ug/kg									
Aroclor-1016	33	U	U	U	U	U	U	U	U	U
Aroclor-1221	67	U	U	U	U	U	U	U	U	U
Aroclor-1232	33	U	U	U	U	U	U	U	U	U
Aroclor-1242	33	U	U	U	U	U	U	U	U	U
Aroclor-1248	33	U	U	U	U	U	U	U	U	U
Aroclor-1254	33	450	380	410	400	610	350	680	450	820
Aroclor-1260	33	110 J	92 J	120 J	130	170 J	110 J	220 J	140 J	640

Remark

* Below the detection limits

**Polychlorinated Biphenyl (PCB) Analysis
Data summary**

Site ID: Cornell - Dubilier Electronics
 Laboratory Name: E & E INC.
 Case No.: 2523
 SDG No.: 6068
 Units: ug/kg

Sampling Date: May 4, 1998
 PM: Michael Mahnkopf
 DCN: START-02-F-01817

Matrix	Soil	Soil								
Client ID #	A1 - 036	A1 - 010A								
Lab ID #	6086	6087								
Percent Moisture	23	18								
Dilution Factor	1	1								
PCB	MDL ug/kg									
Aroclor-1016	33	U	U							
Aroclor-1221	67	U	U							
Aroclor-1232	33	U	U							
Aroclor-1242	33	U	U							
Aroclor-1248	33	U	U							
Aroclor-1254	33	360	95							
Aroclor-1260	33	110 J	43							

Remark Field Dup

Polychlorinated Biphenyl (PCB) Analysis
Data summary

Site ID: Cornell - Dubilier Electronics

Laboratory Name: E & E INC.

Case No.: 2523

SDG No.: 6088

Units: ug/kg

Sampling Date: May 4, 1998

PM: Michael Mahnkopf

DCN: START-02-F-01817

Matrix	Soil A2-001	Soil A2-002	Soil A2-003	Soil A2-004	Soil A2-005	Soil A2-006	Soil A2-007		
Client ID #	A2-001	A2-002	A2-003	A2-004	A2-005	A2-006	A2-007		
Lab ID #	6088	6089	6090	6091	6092	6093	6094		
Percent Moisture	23	22	23	23	17	26	20		
Dilution Factor	1	1	1	1	1	1	1		
PCB	MDL ug/kg								
Aroclor-1016	33	U	U	U	U	U	U		
Aroclor-1221	67	U	U	U	U	U	U		
Aroclor-1232	33	U	U	U	U	U	U		
Aroclor-1242	33	U	U	U	U	U	U		
Aroclor-1248	33	U	U	U	U	U	U		
Aroclor-1254	33	250	220	270	250	22 J*	690	480	
Aroclor-1260	33	94	58 J	91	89	U	130 J	120 J	

Remark

*Below the detection limits

Polychlorinated Biphenyl (PCB) Analysis
Data summary

Site ID: Cornell - Dubilier Electronics
 Laboratory Name: E & E INC.
 Case No.: 2523
 SDG No.: 6088
 Units: ug/l

Sampling Date: May 4, 1998
 PM: Michael Mahnkopf
 DCN: START-02-F-01817

Matrix	Water									
Client ID #	RB-1									
Lab ID #	6095									
Percent Moisture										
Dilution Factor	1									
PCB	MDL ug/L									
Aroclor-1016	2.0	U								
Aroclor-1221	4.0	U								
Aroclor-1232	2.0	U								
Aroclor-1242	2.0	U								
Aroclor-1248	2.0	U								
Aroclor-1254	2.0	U								
Aroclor-1260	2.0	U								

Remark Reagent Blk.



Appendix C

Laboratory Reported Result

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A1-001

Lab Code: EANDE Case No.: 9800.898 SAS No.: SDG No.: 6041

Matrix: (soil/water) SOIL Lab Sample ID: 6041

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 23 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/11/98

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)		Q
		UG/KG	Q	
12674-11-2-----	Aroclor-1016	86	U	
11104-28-2-----	Aroclor-1221	170	U	
11141-16-5-----	Aroclor-1232	86	U	
53469-21-9-----	Aroclor-1242	86	U	
12672-29-6-----	Aroclor-1248	86	U	
11097-69-1-----	Aroclor-1254	470	P J	
11096-82-5-----	Aroclor-1260	150	P J	

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-002

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.898 SAS No.: SDG No.: 6041

Matrix: (soil/water) SOIL Lab Sample ID: 6042

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 21 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/11/98

Injection Volume: 2.00 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	840	U	
11104-28-2-----	Aroclor-1221	1700	U	
11141-16-5-----	Aroclor-1232	840	U	
53469-21-9-----	Aroclor-1242	840	U	
12672-29-6-----	Aroclor-1248	840	U	
11097-69-1-----	Aroclor-1254	2900		
11096-82-5-----	Aroclor-1260	840	U	

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A1-003

Lab Code: EANDE Case No.: 9800.898 SAS No.: SDG No.: 6041

Matrix: (soil/water) SOIL Lab Sample ID: 6043

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 22 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/11/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
---------	----------	---	-------	---

12674-11-2-----	Aroclor-1016		42	U
11104-28-2-----	Aroclor-1221		86	U
11141-16-5-----	Aroclor-1232		42	U
53469-21-9-----	Aroclor-1242		42	U
12672-29-6-----	Aroclor-1248		42	U
11097-69-1-----	Aroclor-1254	130		
11096-82-5-----	Aroclor-1260	69		

FORM I PEST

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1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A1-004

Lab Code: EANDE Case No.: 9800.898 SAS No.: SDG No.: 6041

Matrix: (soil/water) SOIL Lab Sample ID: 6044

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 24 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	430	U	
11104-28-2-----	Aroclor-1221	880	U	
11141-16-5-----	Aroclor-1232	430	U	
53469-21-9-----	Aroclor-1242	430	U	
12672-29-6-----	Aroclor-1248	430	U	
11097-69-1-----	Aroclor-1254	920	P	J
11096-82-5-----	Aroclor-1260	430	U	

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-005

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.898 SAS No.: SDG No.: 6041

Matrix: (soil/water) SOIL Lab Sample ID: 6045

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 30 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/11/98

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	94	U	
11104-28-2-----	Aroclor-1221	190	U	
11141-16-5-----	Aroclor-1232	94	U	
53469-21-9-----	Aroclor-1242	94	U	
12672-29-6-----	Aroclor-1248	94	U	
11097-69-1-----	Aroclor-1254	520	P J	
11096-82-5-----	Aroclor-1260	170	P J	

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-006

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.898 SAS No.: SDG No.: 6041

Matrix: (soil/water) SOIL Lab Sample ID: 6046

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 21 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/11/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016		42	U
11104-28-2-----	Aroclor-1221		85	U
11141-16-5-----	Aroclor-1232		42	U
53469-21-9-----	Aroclor-1242		42	U
12672-29-6-----	Aroclor-1248		42	U
11097-69-1-----	Aroclor-1254	110		
11096-82-5-----	Aroclor-1260		42	U

FORM I PEST

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1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A1-007

Lab Code: EANDE Case No.: 9800.898 SAS No.: SDG No.: 6041

Matrix: (soil/water) SOIL Lab Sample ID: 6047

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 24 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/11/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
---------	----------	---	-------	---

12674-11-2-----	Aroclor-1016	43	U	
11104-28-2-----	Aroclor-1221	88	U	
11141-16-5-----	Aroclor-1232	43	U	
53469-21-9-----	Aroclor-1242	43	U	
12672-29-6-----	Aroclor-1248	43	U	
11097-69-1-----	Aroclor-1254	220		
11096-82-5-----	Aroclor-1260	81	Z	

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-007A

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.898 SAS No.: SDG No.: 6041

Matrix: (soil/water) SOIL Lab Sample ID: 6048

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 21 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/11/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2-----	Aroclor-1016	42	U
11104-28-2-----	Aroclor-1221	85	U
11141-16-5-----	Aroclor-1232	42	U
53469-21-9-----	Aroclor-1242	42	U
12672-29-6-----	Aroclor-1248	42	U
11097-69-1-----	Aroclor-1254	120	P
11096-82-5-----	Aroclor-1260	62	

FORM I PEST

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PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-007B

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.898 SAS No.: SDG No.: 6041

Matrix: (soil/water) SOIL Lab Sample ID: 6049

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 23 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/12/98

Injection Volume: 2.00 (uL) Dilution Factor: 4.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	170	U	
11104-28-2-----	Aroclor-1221	350	U	
11141-16-5-----	Aroclor-1232	170	U	
53469-21-9-----	Aroclor-1242	170	U	
12672-29-6-----	Aroclor-1248	170	U	
11097-69-1-----	Aroclor-1254	790		
11096-82-5-----	Aroclor-1260	380	Z J	

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-007C

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.898 SAS No.: SDG No.: 6041

Matrix: (soil/water) SOIL Lab Sample ID: 6050

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 22 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/11/98

Injection Volume: 2.00 (uL) Dilution Factor: 4.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	170	U	
11104-28-2-----	Aroclor-1221	340	U	
11141-16-5-----	Aroclor-1232	170	U	
53469-21-9-----	Aroclor-1242	170	U	
12672-29-6-----	Aroclor-1248	170	U	
11097-69-1-----	Aroclor-1254	580		
11096-82-5-----	Aroclor-1260	300	P J	

Dup # 007B

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-008

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.898 SAS No.: SDG No.: 6041

Matrix: (soil/water) SOIL Lab Sample ID: 6051

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 23 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/12/98

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	86	U	
11104-28-2-----	Aroclor-1221	170	U	
11141-16-5-----	Aroclor-1232	86	U	
53469-21-9-----	Aroclor-1242	86	U	
12672-29-6-----	Aroclor-1248	86	U	
11097-69-1-----	Aroclor-1254	490	P]	
11096-82-5-----	Aroclor-1260	150	P	

FORM I PEST

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1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-009

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.898

SAS No.:

SDG No.: 6041

Matrix: (soil/water) SOIL

Lab Sample ID: 6052

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 17 decanted: (Y/N) N

Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/07/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/12/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2-----	Aroclor-1016	40	U
11104-28-2-----	Aroclor-1221	81	U
11141-16-5-----	Aroclor-1232	40	U
53469-21-9-----	Aroclor-1242	40	U
12672-29-6-----	Aroclor-1248	40	U
11097-69-1-----	Aroclor-1254	46	P J
11096-82-5-----	Aroclor-1260	31	J *

BDL

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A1-010

Lab Code: EANDE Case No.: 9800.898 SAS No.: SDG No.: 6041

Matrix: (soil/water) SOIL Lab Sample ID: 6053

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 19 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/12/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
---------	----------	---	-------	---

12674-11-2-----	Aroclor-1016	41	U	
11104-28-2-----	Aroclor-1221	83	U	
11141-16-5-----	Aroclor-1232	41	U	
53469-21-9-----	Aroclor-1242	41	U	
12672-29-6-----	Aroclor-1248	41	U	
11097-69-1-----	Aroclor-1254	27	JP J*	
11096-82-5-----	Aroclor-1260	41	U	

BDL

FORM I PEST

SW8082

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1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A1-011

Lab Code: EANDE Case No.: 9800.898 SAS No.: SDG No.: 6041

Matrix: (soil/water) SOIL Lab Sample ID: 6054

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 31 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/12/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q	
12674-11-2-----	Aroclor-1016	48	U
11104-28-2-----	Aroclor-1221	97	U
11141-16-5-----	Aroclor-1232	48	U
53469-21-9-----	Aroclor-1242	48	U
12672-29-6-----	Aroclor-1248	48	U
11097-69-1-----	Aroclor-1254	100	
11096-82-5-----	Aroclor-1260	51	

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-012

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.898 SAS No.: SDG No.: 6041

Matrix: (soil/water) SOIL Lab Sample ID: 6055

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 28 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/12/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q	

12674-11-2-----Aroclor-1016		46	U
11104-28-2-----Aroclor-1221		93	U
11141-16-5-----Aroclor-1232		46	U
53469-21-9-----Aroclor-1242		46	U
12672-29-6-----Aroclor-1248		46	U
11097-69-1-----Aroclor-1254		100	
11096-82-5-----Aroclor-1260		46	X

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-013

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.898 SAS No.: SDG No.: 6041

Matrix: (soil/water) SOIL Lab Sample ID: 6056

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 37 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/12/98

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND		
12674-11-2-----	Aroclor-1016	260	U
11104-28-2-----	Aroclor-1221	530	U
11141-16-5-----	Aroclor-1232	260	U
53469-21-9-----	Aroclor-1242	260	U
12672-29-6-----	Aroclor-1248	260	U
11097-69-1-----	Aroclor-1254	1100	
11096-82-5-----	Aroclor-1260	220	JP J

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Al-014

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.898 SAS No.: SDG No.: 6041

Matrix: (soil/water) SOIL Lab Sample ID: 6057

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 33 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/12/98

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	99	U	
11104-28-2-----	Aroclor-1221	200	U	
11141-16-5-----	Aroclor-1232	99	U	
53469-21-9-----	Aroclor-1242	99	U	
12672-29-6-----	Aroclor-1248	99	U	
11097-69-1-----	Aroclor-1254	650		
11096-82-5-----	Aroclor-1260	190	P	J

FORM I PEST

SW8082

1D
PCB..ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E-INC.

Contract:

A1-015

Lab Code: EANDE Case No.: 9800.898 SAS No.: SDG No.: 6041

Matrix: (soil/water) SOIL Lab Sample ID: 6058

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 27 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/07/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/12/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q		
12674-11-2-----	Aroclor-1016		45	U
11104-28-2-----	Aroclor-1221		92	U
11141-16-5-----	Aroclor-1232		45	U
53469-21-9-----	Aroclor-1242		45	U
12672-29-6-----	Aroclor-1248		45	U
11097-69-1-----	Aroclor-1254	170		
11096-82-5-----	Aroclor-1260	60	P	J

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-017

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.898

SAS No.:

SDG No.: 6041

Matrix: (soil/water) SOIL

Lab Sample ID: 6060

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 30 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/07/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/12/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	47	U	
11104-28-2-----	Aroclor-1221	96	U	
11141-16-5-----	Aroclor-1232	47	U	
53469-21-9-----	Aroclor-1242	47	U	
12672-29-6-----	Aroclor-1248	47	U	
11097-69-1-----	Aroclor-1254	230		P J
11096-82-5-----	Aroclor-1260	69		

FORM I PEST

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1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A1-018

Lab Code: EANDE Case No.: 9800.900 SAS No.: SDG No.: 6068

Matrix: (soil/water) SOIL Lab Sample ID: 6068

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 22 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/15/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	42	U	
11104-28-2-----	Aroclor-1221	86	U	
11141-16-5-----	Aroclor-1232	42	U	
53469-21-9-----	Aroclor-1242	42	U	
12672-29-6-----	Aroclor-1248	42	U	
11097-69-1-----	Aroclor-1254	180		
11096-82-5-----	Aroclor-1260	58	P,J	

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-019

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.900 SAS No.: SDG No.: 6068

Matrix: (soil/water) SOIL Lab Sample ID: 6069

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 19 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/15/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	41	U	
11104-28-2-----	Aroclor-1221	83	U	
11141-16-5-----	Aroclor-1232	41	U	
53469-21-9-----	Aroclor-1242	41	U	
12672-29-6-----	Aroclor-1248	41	U	
11097-69-1-----	Aroclor-1254	130		
11096-82-5-----	Aroclor-1260	38	JP J*	

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FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A1-020

Lab Code: EANDE Case No.: 9800.900 SAS No.: SDG No.: 6068

Matrix: (soil/water) SOIL Lab Sample ID: 6070

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 24 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/15/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	43	U	
11104-28-2-----	Aroclor-1221	88	U	
11141-16-5-----	Aroclor-1232	43	U	
53469-21-9-----	Aroclor-1242	43	U	
12672-29-6-----	Aroclor-1248	43	U	
11097-69-1-----	Aroclor-1254	99		
11096-82-5-----	Aroclor-1260	28	JP J*	

BDL

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A1-021

Lab Code: EANDE Case No.: 9800.900 SAS No.: SDG No.: 6068

Matrix: (soil/water) SOIL Lab Sample ID: 6071

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 30 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/15/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	47	U	
11104-28-2-----	Aroclor-1221	96	U	
11141-16-5-----	Aroclor-1232	47	U	
53469-21-9-----	Aroclor-1242	47	U	
12672-29-6-----	Aroclor-1248	47	U	
11097-69-1-----	Aroclor-1254	290		
11096-82-5-----	Aroclor-1260	98	P	

FORM I PEST

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1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-022

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.900

SAS No.:

SDG No.: 6068

Matrix: (soil/water) SOIL

Lab Sample ID: 6072

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 19 decanted: (Y/N) N

Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/15/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

12674-11-2-----Aroclor-1016		41	U
11104-28-2-----Aroclor-1221		83	U
11141-16-5-----Aroclor-1232		41	U
53469-21-9-----Aroclor-1242		41	U
12672-29-6-----Aroclor-1248		41	U
11097-69-1-----Aroclor-1254		81	
11096-82-5-----Aroclor-1260		25	JP J*

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FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A1-023

Lab Code: EANDE Case No.: 9800.900 SAS No.: SDG No.: 6068

Matrix: (soil/water) SOIL Lab Sample ID: 6073

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 22 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/15/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

12674-11-2-----Aroclor-1016		42	U
11104-28-2-----Aroclor-1221		86	U
11141-16-5-----Aroclor-1232		42	U
53469-21-9-----Aroclor-1242		42	U
12672-29-6-----Aroclor-1248		42	U
11097-69-1-----Aroclor-1254		220	
11096-82-5-----Aroclor-1260		80	Z

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1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-024

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800:900

SAS No.:

SDG No.: 6068

Matrix: (soil/water) SOIL

Lab Sample ID: 6074

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 26 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/19/98

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2-----	Aroclor-1016	450	U
11104-28-2-----	Aroclor-1221	910	U
11141-16-5-----	Aroclor-1232	450	U
53469-21-9-----	Aroclor-1242	450	U
12672-29-6-----	Aroclor-1248	450	U
11097-69-1-----	Aroclor-1254	850	P J
11096-82-5-----	Aroclor-1260	450	U

FORM I PEST

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1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-025

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.900 SAS No.: SDG No.: 6068

Matrix: (soil/water) SOIL Lab Sample ID: 6075

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 24 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/19/98

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	430	U	
11104-28-2-----	Aroclor-1221	880	U	
11141-16-5-----	Aroclor-1232	430	U	
53469-21-9-----	Aroclor-1242	430	U	
12672-29-6-----	Aroclor-1248	430	U	
11097-69-1-----	Aroclor-1254	1200	P	J
11096-82-5-----	Aroclor-1260	430	U	

FORM I PEST

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1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-026

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.900 SAS No.: SDG No.: 6068

Matrix: (soil/water) SOIL Lab Sample ID: 6076

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 25 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/19/98

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

12674-11-2-----Aroclor-1016	220	U
11104-28-2-----Aroclor-1221	450	U
11141-16-5-----Aroclor-1232	220	U
53469-21-9-----Aroclor-1242	220	U
12672-29-6-----Aroclor-1248	220	U
11097-69-1-----Aroclor-1254	780	P J
11096-82-5-----Aroclor-1260	200	JP J*

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1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A1-027

Lab Code: EANDE Case No.: 9800.900 SAS No.: SDG No.: 6068

Matrix: (soil/water) SOIL Lab Sample ID: 6077

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 20 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/16/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
---------	----------	---	-------	---

12674-11-2-----	Aroclor-1016	41	U	
11104-28-2-----	Aroclor-1221	84	U	
11141-16-5-----	Aroclor-1232	41	U	
53469-21-9-----	Aroclor-1242	41	U	
12672-29-6-----	Aroclor-1248	41	U	
11097-69-1-----	Aroclor-1254	450		
11096-82-5-----	Aroclor-1260	110	P✓	J

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-028

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.900 SAS No.: SDG No.: 6068

Matrix: (soil/water) SOIL Lab Sample ID: 6078

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 22 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/16/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
12674-11-2-----	Aroclor-1016	42	U	
11104-28-2-----	Aroclor-1221	86	U	
11141-16-5-----	Aroclor-1232	42	U	
53469-21-9-----	Aroclor-1242	42	U	
12672-29-6-----	Aroclor-1248	42	U	
11097-69-1-----	Aroclor-1254	380		
11096-82-5-----	Aroclor-1260	92	P	

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A1-029

Lab Code: EANDE Case No.: 9800.900 SAS No.: SDG No.: 6068

Matrix: (soil/water) SOIL Lab Sample ID: 6079

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 24 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/16/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	43	U	
11104-28-2-----	Aroclor-1221	88	U	
11141-16-5-----	Aroclor-1232	43	U	
53469-21-9-----	Aroclor-1242	43	U	
12672-29-6-----	Aroclor-1248	43	U	
11097-69-1-----	Aroclor-1254	410		
11096-82-5-----	Aroclor-1260	120	P	

FORM I PEST

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1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-030

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.900 SAS No.: SDG No.: 6068

Matrix: (soil/water) SOIL Lab Sample ID: 6080

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 27 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/19/98

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	90	U	
11104-28-2-----	Aroclor-1221	180	U	
11141-16-5-----	Aroclor-1232	90	U	
53469-21-9-----	Aroclor-1242	90	U	
12672-29-6-----	Aroclor-1248	90	U	
11097-69-1-----	Aroclor-1254	400	P	
11096-82-5-----	Aroclor-1260	130	PV	

FORM I PEST

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1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-031

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.900 SAS No.: SDG No.: 6068

Matrix: (soil/water) SOIL Lab Sample ID: 6081

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 30 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/19/98

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

12674-11-2-----	Aroclor-1016	94	U
11104-28-2-----	Aroclor-1221	190	U
11141-16-5-----	Aroclor-1232	94	U
53469-21-9-----	Aroclor-1242	94	U
12672-29-6-----	Aroclor-1248	94	U
11097-69-1-----	Aroclor-1254	610	
11096-82-5-----	Aroclor-1260	170	P

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-032

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.900 SAS No.: SDG No.: 6068

Matrix: (soil/water) SOIL Lab Sample ID: 6082

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 31 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/16/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	48	U	
11104-28-2-----	Aroclor-1221	97	U	
11141-16-5-----	Aroclor-1232	48	U	
53469-21-9-----	Aroclor-1242	48	U	
12672-29-6-----	Aroclor-1248	48	U	
11097-69-1-----	Aroclor-1254	350		
11096-82-5-----	Aroclor-1260	110		J

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-033

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.900

SAS No.:

SDG No.: 6068

Matrix: (soil/water) SOIL

Lab Sample ID: 6083

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 23 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/19/98

Injection Volume: 2.00 (uL) Dilution Factor: 4.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
---------	----------	---	-------	---

12674-11-2-----	Aroclor-1016	170	U	
11104-28-2-----	Aroclor-1221	350	U	
11141-16-5-----	Aroclor-1232	170	U	
53469-21-9-----	Aroclor-1242	170	U	
12672-29-6-----	Aroclor-1248	170	U	
11097-69-1-----	Aroclor-1254	680		
11096-82-5-----	Aroclor-1260	220	X	J

FORM I PEST

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1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-034

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.900 SAS No.: SDG No.: 6068

Matrix: (soil/water) SOIL Lab Sample ID: 6084

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 19 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/19/98

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	81	U	
11104-28-2-----	Aroclor-1221	170	U	
11141-16-5-----	Aroclor-1232	81	U	
53469-21-9-----	Aroclor-1242	81	U	
12672-29-6-----	Aroclor-1248	81	U	
11097-69-1-----	Aroclor-1254	450		
11096-82-5-----	Aroclor-1260	140	P	J

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A1-035

Lab Code: EANDE Case No.: 9800.900 SAS No.: SDG No.: 6068

Matrix: (soil/water) SOIL Lab Sample ID: 6085

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 14 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/19/98

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	190	U	
11104-28-2-----	Aroclor-1221	390	U	
11141-16-5-----	Aroclor-1232	190	U	
53469-21-9-----	Aroclor-1242	190	U	
12672-29-6-----	Aroclor-1248	190	U	
11097-69-1-----	Aroclor-1254	820		
11096-82-5-----	Aroclor-1260	640		

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A1-036

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.900 SAS No.: SDG No.: 6068

Matrix: (soil/water) SOIL Lab Sample ID: 6086

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 23 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/16/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q	
12674-11-2-----	Aroclor-1016	43	U
11104-28-2-----	Aroclor-1221	87	U
11141-16-5-----	Aroclor-1232	43	U
53469-21-9-----	Aroclor-1242	43	U
12672-29-6-----	Aroclor-1248	43	U
11097-69-1-----	Aroclor-1254	360	P
11096-82-5-----	Aroclor-1260	110	P

Field DUP

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A1-010A

Lab Code: EANDE Case No.: 9800.900 SAS No.: SDG No.: 6068

Matrix: (soil/water) SOIL Lab Sample ID: 6087

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 18 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/16/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	40	U	
11104-28-2-----	Aroclor-1221	82	U	
11141-16-5-----	Aroclor-1232	40	U	
53469-21-9-----	Aroclor-1242	40	U	
12672-29-6-----	Aroclor-1248	40	U	
11097-69-1-----	Aroclor-1254	95	P✓	
11096-82-5-----	Aroclor-1260	43	P✓	

FORM I PEST

SW8082

111

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A2-001

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.901 SAS No.: SDG No.: 6088

Matrix: (soil/water) SOIL Lab Sample ID: 6088

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 23 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/16/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	43	U	
11104-28-2-----	Aroclor-1221	87	U	
11141-16-5-----	Aroclor-1232	43	U	
53469-21-9-----	Aroclor-1242	43	U	
12672-29-6-----	Aroclor-1248	43	U	
11097-69-1-----	Aroclor-1254	250	P	
11096-82-5-----	Aroclor-1260	94	P	

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A2-002

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.901 SAS No.: SDG No.: 6088

Matrix: (soil/water) SOIL Lab Sample ID: 6089

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 22 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/16/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	42	U	
11104-28-2-----	Aroclor-1221	86	U	
11141-16-5-----	Aroclor-1232	42	U	
53469-21-9-----	Aroclor-1242	42	U	
12672-29-6-----	Aroclor-1248	42	U	
11097-69-1-----	Aroclor-1254	220		
11096-82-5-----	Aroclor-1260	58	P J	

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A2-003

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.901 SAS No.: SDG No.: 6088

Matrix: (soil/water) SOIL Lab Sample ID: 6090

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 23 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/16/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	43	U	
11104-28-2-----	Aroclor-1221	87	U	
11141-16-5-----	Aroclor-1232	43	U	
53469-21-9-----	Aroclor-1242	43	U	
12672-29-6-----	Aroclor-1248	43	U	
11097-69-1-----	Aroclor-1254	270		
11096-82-5-----	Aroclor-1260	91	X	

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A2-004

Lab Code: EANDE Case No.: 9800.901 SAS No.: SDG No.: 6088

Matrix: (soil/water) SOIL Lab Sample ID: 6091

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 23 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/16/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	43	U	
11104-28-2-----	Aroclor-1221	87	U	
11141-16-5-----	Aroclor-1232	43	U	
53469-21-9-----	Aroclor-1242	43	U	
12672-29-6-----	Aroclor-1248	43	U	
11097-69-1-----	Aroclor-1254	250	P	
11096-82-5-----	Aroclor-1260	89	P	

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A2-005

Lab Code: EANDE Case No.: 9800.901 SAS No.: SDG No.: 6088

Matrix: (soil/water) SOIL Lab Sample ID: 6092

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 17 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/16/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND			
12674-11-2-----	Aroclor-1016	40	U	
11104-28-2-----	Aroclor-1221	81	U	
11141-16-5-----	Aroclor-1232	40	U	
53469-21-9-----	Aroclor-1242	40	U	
12672-29-6-----	Aroclor-1248	40	U	
11097-69-1-----	Aroclor-1254	22	J	
11096-82-5-----	Aroclor-1260	40	U	

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FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A2-006

Lab Code: EANDE Case No.: 9800.901 SAS No.: SDG No.: 6088

Matrix: (soil/water) SOIL Lab Sample ID: 6093

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 26 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/16/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND			
12674-11-2-----	Aroclor-1016	45	U	
11104-28-2-----	Aroclor-1221	91	U	
11141-16-5-----	Aroclor-1232	45	U	
53469-21-9-----	Aroclor-1242	45	U	
12672-29-6-----	Aroclor-1248	45	U	
11097-69-1-----	Aroclor-1254	690		P J
11096-82-5-----	Aroclor-1260	130		

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A2-007

Lab Code: EANDE Case No.: 9800.901 SAS No.: SDG No.: 6088

Matrix: (soil/water) SOIL Lab Sample ID: 6094

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 20 decanted: (Y/N) N Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/16/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	41	U	
11104-28-2-----	Aroclor-1221	84	U	
11141-16-5-----	Aroclor-1232	41	U	
53469-21-9-----	Aroclor-1242	41	U	
12672-29-6-----	Aroclor-1248	41	U	
11097-69-1-----	Aroclor-1254	480		
11096-82-5-----	Aroclor-1260	120	PJ	

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

RB-1

Lab Code: EANDE Case No.: 9800.901 SAS No.: SDG No.: 6088

Matrix: (soil/water) WATER Lab Sample ID: 6095

Sample wt/vol: 500 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 05/05/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/15/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
12674-11-2-----	Aroclor-1016		2.0	U
11104-28-2-----	Aroclor-1221		4.0	U
11141-16-5-----	Aroclor-1232		2.0	U
53469-21-9-----	Aroclor-1242		2.0	U
12672-29-6-----	Aroclor-1248		2.0	U
11097-69-1-----	Aroclor-1254		2.0	U
11096-82-5-----	Aroclor-1260		2.0	U

The method BIK had surrogate < QC (only one surrogate)
However, the recoveries were within the control limits in this blank



Appendix D

Support Documentation

2F
SOIL PCB SURROGATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.898

SAS No.:

SDG No.: 6041

GC Column(1): RTX-5

ID: 0.53 (mm)

GC Column(2): RTX-35

ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX %REC #	TCX %REC #	DCB %REC #	DCB %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKS1	104	100	96	95			0
02	A1-001	101	102	124	124			0
03	A1-002	0D	0D	0D	0D			0
04	A1-003	91	88	96	96			0
05	A1-004	115	109	194*	153*			2
06	A1-005	106	106	119	137			0
07	A1-006	112	108	116	122			0
08	A1-007	98	95	102	106			0
09	A1-007A	88	85	86	94			0
10	A1-007B	99	104	164*	163*			2
11	A1-007BMS	86	88	140	139			0
12	A1-007BMSD	108	112	178*	174*			2
13	A1-007C	85	88	134	167*			1
14	A1-008	98	102	126	140			0
15	A1-009	108	103	96	98			0
16	A1-010	102	98	110	139			0
17	A1-011	104	99	95	120			0
18	A1-012	104	100	126	104			0
19	A1-013	110	113	122	120			0
20	A1-014	96	100	122	104			0
21	A1-015	118	114	123	123			0
22	A1-016	112	110	106	112			0
23	A1-017	95	96	85	97			0

QC LIMITS

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

(30-150)
(30-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

2F
SOIL PCB - SURROGATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.900 SAS No.: SDG No.: 6068

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-35 ID: 0.53 (mm)

SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01 PBLKS1	109	101	112	103			0
02 A1-010A	110	103	95	100			0
03 A1-018	90	91	103	101			0
04 A1-019	104	101	103	104			0
05 A1-020	109	106	114	106			0
06 A1-021	110	105	104	92			0
07 A1-022	96	91	96	90			0
08 A1-023	104	102	102	103			0
09 A1-024	96	92	147	98			0
10 A1-025	118	110	153*	120			1
11 A1-026	108	105	144	134			0
12 A1-027	61	61	94	92			0
13 A1-028	95	93	99	110			0
14 A1-029	96	94	179*	180*			2
15 A1-030	100	98	97	97			0
16 A1-031	94	94	105	105			0
17 A1-032	84	82	86	101			0
18 A1-033	82	80	96	98			0
19 A1-033MS	106	104	130	129			0
20 A1-033MSD	104	102	122	122			0
21 A1-034	104	102	116	117			0
22 A1-035	106	106	120	124			0
23 A1-036	106	101	106	108			0

QC LIMITS

TCX = Tetrachloro-m-xylene (60-150)

DCB = Decachlorobiphenyl (60-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

2F
SOIL PCB SURROGATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.901 SAS No.: SDG No.: 6088

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-35 ID: 0.53 (mm)

SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01 PBLKS1	110	101	107	104			0
02 A2-001	109	104	119	118			0
03 A2-002	99	94	98	98			0
04 A2-003	99	97	107	107			0
05 A2-004	106	104	98	108			0
06 A2-005	99	94	94	88			0
07 A2-006	106	101	120	112			0
08 A2-007	104	100	112	115			0

QC LIMITS

TCX = Tetrachloro-m-xylene (50-150)
 DCB = Decachlorobiphenyl (50-150)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

2E
WATER PCB SURROGATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.901 SAS No.: SDG No.: 6088

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-35 ID: 0.53 (mm)

SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01 PBLKW1	16*	16*	68	66			2
02 RB-1	95	90	63	62			0

QC LIMITS

TCX = Tetrachloro-m-xylene (50-150)
DCB = Decachlorobiphenyl (50-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3F
SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.900 SAS No.:

SDG No.: 6068

Matrix Spike -

Sample No.: A1-033

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1254	217	680	1000	147	50-150

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
Aroclor-1254	217	980	138	6.3	35 50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III PEST-2

SW8082

3F
SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.898 SAS No.: SDG No.: 6041

Matrix Spike - EPA Sample No.: A1-007B

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1254	167	790	820	13.8*	50-150

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1254	167	1100	144	165	35	50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 1 outside limits

Spike Recovery: 1 out of 2 outside limits

COMMENTS: Positive values for Aroclor-1254 and Aroclor-1260 affect sample recoveries.

FORM III PEST-2

SW8082

3E
WATER PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.901 SAS No.: SDG No.: 6088

Matrix Spike - EPA Sample No.: BATCH QC

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Aroclor-1254	10.0	0	8.0	80.0	50-150

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
Aroclor-1254	10.0	7.50	75.0	6.45	25 50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III PEST-1

SW8082

SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.901 SAS No.: SDG No.: 6088

Matrix Spike - EPA Sample No.: BATCH QC

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1254	167	220	300	47.9*	50-150

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1254	167	330	77.8	48.6*	35	50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 1 outside limits

Spike Recovery: 1 out of 2 outside limits

COMMENTS: Positive values for Aroclor-1254 and Aroclor-1260 affect sample recoveries.



END OF DATA PACKAGE



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SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019

DATA QUALITY OBJECTIVE

**DOCUMENT CONTROL NO.: START-02-F-01817
CORNELL DUBILIER ELECTRONICS
PROJECT NO.: 2523**

**SAMPLING DATE MAY 5,1998
SAMPLING GROUP: 6078 & 6098**

**REPORTED BY
ROY F. WESTON, INC.**

REVIEWED BY: Zohreh Hamid
Zohreh Hamid, Ph.D.
Senior Chemist

6-14-98
Date





CORNELL DUBILIER ELECTRONICS
PROJECT NUMBER: 2523
DCN: START-02-F-01817
SAMPLING DATE 5-5-98

INTRODUCTION

This quality assurance review is based upon a review of all data generated from thirty-one soil samples, including two sets of field duplicates, and one reagent blank, collected on 05-05-98. The samples received on 05-06-98 by Ecology & Environment, Inc. (E & E) Laboratory, located in Lancaster, New York. The samples were grouped in two different SDG numbers by the laboratory, and analyzed according to the criteria set forth in SW846 Method 8082, for Poly Chlorinated Biphenyl (PCB) target compounds. The samples are tabulated in the following:

SDG NUMBER	SAMPLE ID
6078	A2-008 to A2-016 & A3-001 to A3-010 & A1-003A
6098	A4-001 to A4-011 & RB-2

Two sets of MS/MSD samples were analyzed on samples A2-008 & A4-001.

All data have been validated with regard to usability according to USEPA Region II Functional Guidelines and the Quality Control criteria established in the applied Method. If you have any questions or comments on this data review, please call Zohreh Hamid at (610) 269-9989.

QUALITY ASSURANCE REVIEW

The findings offered in this report are based upon a review of the following criteria:

- Holding Times
- Calibrations
- Blanks
- Surrogate Recoveries
- Standards Recovery
- Matrix Spike/Spike Duplicate/Blank Spike Analyses
- Instrument Performance
- Field Duplicate Result
- Sample Results
- Data Completeness



Site ID: Cornell Dubilier Electronics
Sampling Events: 5-5-1998

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HOLDING TIME

All samples were extracted/analyzed within the Region II requirements.

CALIBRATIONS

A five-point calibration analysis was performed for aroclor-1016, aroclor-1254 and aroclor-1260. The percent RSDs were within the control limits of 20% at least in one column. Also, aroclor-1254 and aroclor-1660 were analyzed as continuing calibrations. The %Ds were within the control limits of less than 15% for all standards analyzed on primary and secondary columns.

The calibration blanks were not analyzed during the initial and continuing calibrations. However, the cross contamination was not expected, since "hexane" was analyzed prior to each calibration standard. The chromatogram for hexane was free of target and non-target compound peaks.

BLANK ANALYSIS

The preparation blanks and reagent blank were free of target compounds.

MATRIX SPIKE/SPIKE DUPLICATE ANALYSIS

Two sets of matrix spike/spike duplicate analyses were performed for soil samples. Also, one set of MS/MSD analyzed for water sample. The recoveries and RPDs were within the control limits of 50-150% and 50% respectively.

Blank spike/spike duplicate samples (BS/BSD) were not analyzed for these SDGs.

STANDARD RECOVERY

All external standard recoveries and retention times in the initial and continuing calibrations were within the control limits on the primary and secondary columns.



Site ID: Cornell Dubilier Electronics
Sampling Events: 5-5-98

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SURROGATE RECOVERIES

The surrogate recoveries for TCX and DCB were within the control limits of 50-150% range with the exception of the following DCB surrogate compound recoveries:

Sample ID	Column #1	Column #2
A1-003A	176	183
A2-014	154	
A3-009	162	154
A3-010		167
A4-007	38	42
RB-2	29	26

Also, the recoveries of TCX surrogate compound in water blank (16/16%) and A4-007 (49/48%) were below the control limits of 50% on both column. The data for the above samples were not qualified, since at least one surrogate compound met the requirements with the exception of A4-007. The recoveries for sample A4-007 were above 10%. Therefore, the data were not qualified based on this advisory limit.

DUPLICATE ANALYSIS

Two sets of field duplicate sample analyses were performed for these samples. The RPDs were listed in the following:

Sample IDs	Compound Name	Field Sample Result	Field Dup Results	RPD
A2-008/016	Aroclor-1254	500	530	9
	Arclor-1260	140J	ND	NA
A4-001/010	Aroclor-1254	270	270	0
	Aroclor-1260	110	100	10

NA= Not applicable, since the values were below the detection limits.

The RPDs demonstrated the acceptable reproducibility for this matrix/analysis.



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Sampling Events: 5-5-98

SAMPLE RESULTS

The results were reported from two different columns. The %Ds for the reported results was within the validation requirement limit of 50% with the exception of the following:

Sample ID	Compound Name	%D
A1-003A	Ar-1260	81
A2-008	Ar-1260	71
A2-010	Ar-1260	96
A2-0011	Ar-1260	73
A2-013	Ar-1260	72
A2-014	Ar-1254	314
A2-016	Ar-1254	307
A3-001	Ar-1254	159
A3-002	Ar-1260	67
A3-004	Ar-1254	309
A3-006	Ar-1260	92
A3-008	Ar-1260	58
A3-009	Ar-1254	57
A3-010	Ar-1254	120
A4-004	Ar-1254	308
	Ar-1260	94
A4-005	Ar-1260	125
A4-006	AR-1260	82
A4-007	Ar-1260	55
A4-009	Ar-1260	75
A4-011	Ar-1260	81

Note: The sample results were flagged "P" by the laboratory for the %Ds above 25%. However, based on the validation requirements, the results were not qualified when the %D is less than 50%.

The reported results were contractually qualified estimated.



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Sampling Events: 5-5-98

Several samples were analyzed at higher dilutions due to the high levels of aroclor-1254. The validation review of chromatograms and the quantitation reports demonstrated that the applied dilutions are appropriate. Therefore, the data quality was considered acceptable.

The positive results for sample A3-007 were qualified estimated since, the base line in chromatogram was elevated, "possible interference".

The results below the reporting limits were qualified estimated due to the uncertainty near the detection limits.

DATA COMPLETENESS

The laboratory case narrative inadvertently stated that the matrix spike of sample A2-008 had a slightly low spike recovery at 46%. The review of the raw data demonstrated a recovery of 68%. This value was correctly reported on Form III.

SUMMARY

The cooler temperatures were within the control limits. The analysis data packages followed the CLP type data package deliverable format. The data package completeness was satisfactory. The sulfur clean up analysis performed. The results from both sets of primary and secondary analyses were listed on similar form X. The lower of two values was reported on the form I. Overall the data quality was satisfactory, and major problems were not encountered during the sample analysis. The minor issues have been discussed. The reported data were summarized on the data summary with the applied qualifier codes.



- 1. Appendix A- Glossary of Data Qualifier**
- 2. Appendix B- Data Summary Forms**
- 3. Appendix C- Laboratory Results (Form I)**
- 4. Appendix D - Support Documentation**



Appendix A

Glossary of Data Qualifier



GLOSSARY OF DATA QUALIFIERS

CODES RELATING TO IDENTIFICATION

(confidence concerning presence or absence of compounds):

- U** = NOT DETECTED SUBSTANTIALLY ABOVE THE LEVEL REPORTED IN LABORATORY OR FIELD BLANKS.
[Substantially is equivalent to a result less than 10 times the blank level for common contaminants (methylene chloride, acetone and 2- butanone in the VOA analyses, and common phthalates in the BNA analyses, along with tentatively identified compounds) or less than 5 times the blank level for other target compounds.]
- R** = UNUSABLE RESULT. THE PRESENCE OR ABSENCE OF THIS ANALYTE CANNOT BE VERIFIED. SUPPORTING DATA NECESSARY TO CONFIRM RESULT.
- N** = NEGATED COMPOUND. THERE IS PRESUMPTIVE EVIDENCE TO MAKE A TENTATIVE IDENTIFICATION.

CODES RELATING TO QUATITATION

(can be used for both positive results and sample quantitation limits):

- J** = ANALYTE WAS POSITIVELY IDENTIFIED. REPORTED VALUE MAY NOT BE ACCURATE OR PRECISE.
- UJ** = ANALYTE WAS NOT DETECTED. THE REPORTED QUATITATION LIMIT IS QUALIFIED ESTIMATED.

OTHER CODES

- Q** = NO ANALYTICAL RESULT.



Appendix B

Data Summary Forms

Polychlorinated Biphenyl (PCB) Analysis
Data summary

Site ID: Cornell - Dubilier Electronics

Laboratory Name: E & E INC.

Case No.: 2523

SDG No.: 6178

Units: ug/kg

Sampling Date: May 5, 1998

PM: Michael Mahnkopf

DCN: START-02-F-01817

Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #	A1-003A	A2 - 008	A2 - 009	A2 - 010	A2 - 011	A2 - 012	A2 - 013	A2 - 014	A2 - 015
Lab ID #	6178	6179	6180	6181	6182	6183	6184	6185	6186
Percent Moisture	23	24	24	19	17	17	19	21	23
Dilution Factor	1	4	1	1	1	1	1	20	10
PCB	MDL ug/kg								
Aroclor-1016	33	U	U	U	U	U	U	U	U
Aroclor-1221	67	U	U	U	U	U	U	U	U
Aroclor-1232	33	U	U	U	U	U	U	U	U
Aroclor-1242	33	U	U	U	U	U	U	U	U
Aroclor-1248	33	U	U	U	U	U	U	U	U
Aroclor-1254	33	230	500	120	230	270	60	210	990 J
Aroclor-1260	33	83 J	140 J*	54	56 J	81 J	31 J*	58 J	1500 U

Remark

Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #	A2 - 016	A3 - 001	A3 - 002	A3 - 003	A3 - 004	A3 - 005	A3 - 006	A3 - 007	A3 - 008
Lab ID #	6187	6188	6189	6190	6191	6192	6193	6194	6195
Percent Moisture	24	19	25	20	19	21	19	19	27
Dilution Factor	10	1	1	2	20	1	1	1	2
PCB	MDL ug/kg								
Aroclor-1016	33	U	U	U	U	U	U	U	U
Aroclor-1221	67	U	U	U	U	U	U	U	U
Aroclor-1232	33	U	U	U	U	U	U	U	U
Aroclor-1242	33	U	U	U	U	U	U	U	U
Aroclor-1248	33	U	U	U	U	U	U	U	U
Aroclor-1254	33	530 J	85 J	360	390	930 J	250	330	260 J
Aroclor-1260	33	U	32 J*	120 J	130	U	90	73 J	140 J

Remark Field Dilip

* Below the detection limits

**Polychlorinated Biphenyl (PCB) Analysis
Data summary**

Site ID: Cornell - Dubilier Electronics
Laboratory Name: E & E INC.
Case No.: 2523
SDG No.: 6178
Units: ug/kg

Sampling Date: May 5, 1998
PM: Michael Mahnkopf
DCN: START-02-F-01817

Matrix		Soil	Soil										
Client ID #		A3 - 009	A3 - 010										
Lab ID #		6196	6197										
Percent Moisture		22	19										
Dilution Factor		10	10										
PCB	MDL ug/kg												
Aroclor-1016	33	U	U										
Aroclor-1221	67	U	U										
Aroclor-1232	33	U	U										
Aroclor-1242	33	U	U										
Aroclor-1248	33	U	U										
Aroclor-1254	33	700 J	350 J*										
Aroclor-1260	33	U	U										

Remark

* Below the detection limits

Polychlorinated Biphenyl (PCB) Analysis
Data summary

Site ID: Cornell - Dubilier Electronics
 Laboratory Name: E & E INC.
 Case No.: 2523
 SDG No.: 6198
 Units: ug/kg

Sampling Date: May 5, 1998
 PM: Michael Mahnkopf
 DCN: START-02-F-01817

Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Client ID #	A4-001	A4- 002	A4 - 003	A4 - 004	A4 - 005	A4 - 006	A4 - 007	A4 - 008	A4 - 009
Lab ID #	6198	6199	6200	6201	6202	6203	6204	6205	6206
Percent Moisture	20	21	20	19	22	20	22	18	22
Dilution Factor	1	1	1	10	2	2	1	1	4
PCB	MDL ug/kg								
Aroclor-1016	33	U	U	U	U	U	U	U	U
Aroclor-1221	67	U	U	U	U	U	U	U	U
Aroclor-1232	33	U	U	U	U	U	U	U	U
Aroclor-1242	33	U	U	U	U	U	U	U	U
Aroclor-1248	33	U	U	U	U	U	U	U	U
Aroclor-1254	33	270	300	140	1200 J	390	400	37 J*	65
Aroclor-1260	33	110	110	69	170 J*	98 J	110 J	17 J*	24 J*

Remark

Matrix	Soil	Soil							
Client ID #	A4 - 010	A4 - 011							
Lab ID #	6207	6208							
Percent Moisture	26	9							
Dilution Factor	1	1							
PCB	MDL ug/kg								
Aroclor-1016	33	U	U						
Aroclor-1221	67	U	U						
Aroclor-1232	33	U	U						
Aroclor-1242	33	U	U						
Aroclor-1248	33	U	U						
Aroclor-1254	33	270	130						
Aroclor-1260	33	100	37 J						

**Polychlorinated Biphenyl (PCB) Analysis
Data summary**

Site ID: Cornell - Dubilier Electronics

Laboratory Name: E & E INC.

Case No.: 2523

SDG No.: 6198

Units: ug/l

Sampling Date: May 5, 1998

PM: Michael Mahnkopf

DCN: START-02-F-01817

Matrix	Water										
Client ID #	RB-2										
Lab ID #	6209										
Percent Moisture	1										
Dilution Factor											
PCB	MDL ug/L										
Aroclor-1016	1.0	U									
Aroclor-1221	2.0	U									
Aroclor-1232	1.0	U									
Aroclor-1242	1.0	U									
Aroclor-1248	1.0	U									
Aroclor-1254	1.0	U									
Aroclor-1260	1.0	U									

Remark



Appendix C

Laboratory Reported Result

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A1-003A

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.915

SAS No.:

SDG No.: 6178

Matrix: (soil/water) SOIL

Lab Sample ID: 6178

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 23 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

12674-11-2-----Aroclor-1016		43	U
11104-28-2-----Aroclor-1221		87	U
11141-16-5-----Aroclor-1232		43	U
53469-21-9-----Aroclor-1242		43	U
12672-29-6-----Aroclor-1248		43	U
11097-69-1-----Aroclor-1254		230	P
11096-82-5-----Aroclor-1260		83	P]

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A2-008

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6179

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 24 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL) Dilution Factor: 4.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	170	U	
11104-28-2-----	Aroclor-1221	350	U	
11141-16-5-----	Aroclor-1232	170	U	
53469-21-9-----	Aroclor-1242	170	U	
12672-29-6-----	Aroclor-1248	170	U	
11097-69-1-----	Aroclor-1254	500	P	
11096-82-5-----	Aroclor-1260	140	JP	J

BDL

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: E & E INC.

Contract:

A2-009

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6180

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 24 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND		
12674-11-2-----	Aroclor-1016	43	U
11104-28-2-----	Aroclor-1221	88	U
11141-16-5-----	Aroclor-1232	43	U
53469-21-9-----	Aroclor-1242	43	U
12672-29-6-----	Aroclor-1248	43	U
11097-69-1-----	Aroclor-1254	120	P
11096-82-5-----	Aroclor-1260	54	P

FORM I PEST

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A2-010

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.915

SAS No.:

SDG No.: 6178

Matrix: (soil/water) SOIL

Lab Sample ID: 6181

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 19 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	41	U	
11104-28-2-----	Aroclor-1221	83	U	
11141-16-5-----	Aroclor-1232	41	U	
53469-21-9-----	Aroclor-1242	41	U	
12672-29-6-----	Aroclor-1248	41	U	
11097-69-1-----	Aroclor-1254	230	P	J
11096-82-5-----	Aroclor-1260	56		

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: E & E INC.

Contract:

A2-011

Lab Code: EANDE

Case No.: 9800.915

SAS No.:

SDG No.: 6178

Matrix: (soil/water) SOIL

Lab Sample ID: 6182

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 17 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

12674-11-2-----Aroclor-1016		40	U
11104-28-2-----Aroclor-1221		81	U
11141-16-5-----Aroclor-1232		40	U
53469-21-9-----Aroclor-1242		40	U
12672-29-6-----Aroclor-1248		40	U
11097-69-1-----Aroclor-1254		270	
11096-82-5-----Aroclor-1260		81	PJ

FORM I PEST

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A2-012

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL

Lab Sample ID: 6183

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 17 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	40	U	
11104-28-2-----	Aroclor-1221	81	U	
11141-16-5-----	Aroclor-1232	40	U	
53469-21-9-----	Aroclor-1242	40	U	
12672-29-6-----	Aroclor-1248	40	U	
11097-69-1-----	Aroclor-1254	60	P	
11096-82-5-----	Aroclor-1260	31	J*	

XBL

FORM I PEST

SW8082

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A2-013

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.915

SAS No.:

SDG No.: 6178

Matrix: (soil/water) SOIL

Lab Sample ID: 6184

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 19 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	41	U	
11104-28-2-----	Aroclor-1221	83	U	
11141-16-5-----	Aroclor-1232	41	U	
53469-21-9-----	Aroclor-1242	41	U	
12672-29-6-----	Aroclor-1248	41	U	
11097-69-1-----	Aroclor-1254	210	P	J
11096-82-5-----	Aroclor-1260	58		

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A2-014

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6185

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 21 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/21/98

Injection Volume: 2.00 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)		Q
		UG/KG	J	
12674-11-2-----	Aroclor-1016	840	U	
11104-28-2-----	Aroclor-1221	1700	U	
11141-16-5-----	Aroclor-1232	840	U	
53469-21-9-----	Aroclor-1242	840	U	
12672-29-6-----	Aroclor-1248	840	U	
11097-69-1-----	Aroclor-1254	990	P J	
11096-82-5-----	Aroclor-1260	840	U	

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: E & E INC.

Contract:

A2-015

Lab Code: EANDE

Case No.: 9800.915

SAS No.:

SDG No.: 6178

Matrix: (soil/water) SOIL

Lab Sample ID: 6186

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 23 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/21/98

Injection Volume: 2.00 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	430	U	
11104-28-2-----	Aroclor-1221	870	U	
11141-16-5-----	Aroclor-1232	430	U	
53469-21-9-----	Aroclor-1242	430	U	
12672-29-6-----	Aroclor-1248	430	U	
11097-69-1-----	Aroclor-1254	1500		
11096-82-5-----	Aroclor-1260	750		✓

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A2-016

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6187

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 24 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/21/98

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	430	U	
11104-28-2-----	Aroclor-1221	880	U	
11141-16-5-----	Aroclor-1232	430	U	
53469-21-9-----	Aroclor-1242	430	U	
12672-29-6-----	Aroclor-1248	430	U	
11097-69-1-----	Aroclor-1254	530	P	J
11096-82-5-----	Aroclor-1260	430	U	

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: E & E INC.

Contract:

A3-001

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6188

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 19 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016		41	U
11104-28-2-----	Aroclor-1221		83	U
11141-16-5-----	Aroclor-1232		41	U
53469-21-9-----	Aroclor-1242		41	U
12672-29-6-----	Aroclor-1248		41	U
11097-69-1-----	Aroclor-1254		85	P J
11096-82-5-----	Aroclor-1260		32	J *

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FORM I PEST

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A3-002

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6189

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 25 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	44	U	
11104-28-2-----	Aroclor-1221	89	U	
11141-16-5-----	Aroclor-1232	44	U	
53469-21-9-----	Aroclor-1242	44	U	
12672-29-6-----	Aroclor-1248	44	U	
11097-69-1-----	Aroclor-1254	360		
11096-82-5-----	Aroclor-1260	120	P	J

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A3-003

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.915

SAS No.:

SDG No.: 6178

Matrix: (soil/water) SOIL

Lab Sample ID: 6190

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 20 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/21/98

Injection Volume: 2.00 (uL)

Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	82	U	
11104-28-2-----	Aroclor-1221	170	U	
11141-16-5-----	Aroclor-1232	82	U	
53469-21-9-----	Aroclor-1242	82	U	
12672-29-6-----	Aroclor-1248	82	U	
11097-69-1-----	Aroclor-1254	390	P	
11096-82-5-----	Aroclor-1260	130	P	

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A3-004

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6191

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 19 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/21/98

Injection Volume: 2.00 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	810	U	
11104-28-2-----	Aroclor-1221	1700	U	
11141-16-5-----	Aroclor-1232	810	U	
53469-21-9-----	Aroclor-1242	810	U	
12672-29-6-----	Aroclor-1248	810	U	
11097-69-1-----	Aroclor-1254	930	P	J
11096-82-5-----	Aroclor-1260	810	U	

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: E & E INC.

Contract:

A3-005

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6192

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 21 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SÖNC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016		42	U
11104-28-2-----	Aroclor-1221		85	U
11141-16-5-----	Aroclor-1232		42	U
53469-21-9-----	Aroclor-1242		42	U
12672-29-6-----	Aroclor-1248		42	U
11097-69-1-----	Aroclor-1254	250		
11096-82-5-----	Aroclor-1260	90		P✓

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A3-006

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6193

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 19 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	41	U	
11104-28-2-----	Aroclor-1221	83	U	
11141-16-5-----	Aroclor-1232	41	U	
53469-21-9-----	Aroclor-1242	41	U	
12672-29-6-----	Aroclor-1248	41	U	
11097-69-1-----	Aroclor-1254	330	P	J
11096-82-5-----	Aroclor-1260	73		

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: E & E INC.

Contract:

A3-007

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL

Lab Sample ID: 6194

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 19 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/20/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	41	U	
11104-28-2-----	Aroclor-1221	83	U	
11141-16-5-----	Aroclor-1232	41	U	
53469-21-9-----	Aroclor-1242	41	U	
12672-29-6-----	Aroclor-1248	41	U	
11097-69-1-----	Aroclor-1254	260	J	
11096-82-5-----	Aroclor-1260	140	J	

The base line was elevated

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A3-008

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6195

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 27 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/21/98

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q	
12674-11-2-----	Aroclor-1016	90	U
11104-28-2-----	Aroclor-1221	180	U
11141-16-5-----	Aroclor-1232	90	U
53469-21-9-----	Aroclor-1242	90	U
12672-29-6-----	Aroclor-1248	90	U
11097-69-1-----	Aroclor-1254	420	
11096-82-5-----	Aroclor-1260	120	P,J

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A3-009

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.915

SAS No.:

SDG No.: 6178

Matrix: (soil/water) SOIL

Lab Sample ID: 6196

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 22 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/21/98

Injection Volume: 2.00 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	420	U	
11104-28-2-----	Aroclor-1221	860	U	
11141-16-5-----	Aroclor-1232	420	U	
53469-21-9-----	Aroclor-1242	420	U	
12672-29-6-----	Aroclor-1248	420	U	
11097-69-1-----	Aroclor-1254	700	PJ	
11096-82-5-----	Aroclor-1260	420	U	

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PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A3-010

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.915 SAS No.: SDG No.: 6178

Matrix: (soil/water) SOIL Lab Sample ID: 6197

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 19 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/12/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/21/98

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	410	U	
11104-28-2-----	Aroclor-1221	830	U	
11141-16-5-----	Aroclor-1232	410	U	
53469-21-9-----	Aroclor-1242	410	U	
12672-29-6-----	Aroclor-1248	410	U	
11097-69-1-----	Aroclor-1254	350	JP	JT
11096-82-5-----	Aroclor-1260	410	U	

13DL

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1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A4-001

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.916 SAS No.: SDG No.: 6198

Matrix: (soil/water) SOIL Lab Sample ID: 6198

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 20 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/16/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND			
12674-11-2-----	Aroclor-1016	41	U	
11104-28-2-----	Aroclor-1221	84	U	
11141-16-5-----	Aroclor-1232	41	U	
53469-21-9-----	Aroclor-1242	41	U	
12672-29-6-----	Aroclor-1248	41	U	
11097-69-1-----	Aroclor-1254	270		P✓
11096-82-5-----	Aroclor-1260	110		

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1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A4-002

Lab Code: EANDE Case No.: 9800.916 SAS No.: SDG No.: 6198

Matrix: (soil/water) SOIL Lab Sample ID: 6199

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 21 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/16/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	42	U	
11104-28-2-----	Aroclor-1221	85	U	
11141-16-5-----	Aroclor-1232	42	U	
53469-21-9-----	Aroclor-1242	42	U	
12672-29-6-----	Aroclor-1248	42	U	
11097-69-1-----	Aroclor-1254	300		P
11096-82-5-----	Aroclor-1260	110		

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A4-003

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.916

SAS No.:

SDG No.: 6198

Matrix: (soil/water) SOIL

Lab Sample ID: 6200

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 20 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/16/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND		
12674-11-2-----	Aroclor-1016	41	U
11104-28-2-----	Aroclor-1221	84	U
11141-16-5-----	Aroclor-1232	41	U
53469-21-9-----	Aroclor-1242	41	U
12672-29-6-----	Aroclor-1248	41	U
11097-69-1-----	Aroclor-1254	140	
11096-82-5-----	Aroclor-1260	69	

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1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A4-004

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.916 SAS No.: SDG No.: 6198

Matrix: (soil/water) SOIL Lab Sample ID: 6201

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 19 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/26/98

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND		
12674-11-2-----	Aroclor-1016	410	U
11104-28-2-----	Aroclor-1221	830	U
11141-16-5-----	Aroclor-1232	410	U
53469-21-9-----	Aroclor-1242	410	U
12672-29-6-----	Aroclor-1248	410	U
11097-69-1-----	Aroclor-1254	1200	P J*
11096-82-5-----	Aroclor-1260	170	JP J*

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1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A4-005

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.916 SAS No.: SDG No.: 6198

Matrix: (soil/water) SOIL

Lab Sample ID: 6202

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: .22 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/26/98

Injection Volume: 2.00 (uL)

Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	85	U	
11104-28-2-----	Aroclor-1221	170	U	
11141-16-5-----	Aroclor-1232	85	U	
53469-21-9-----	Aroclor-1242	85	U	
12672-29-6-----	Aroclor-1248	85	U	
11097-69-1-----	Aroclor-1254	390	P	J
11096-82-5-----	Aroclor-1260	98	P	J

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PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A4-006

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.916

SAS No.:

SDG No.: 6198

Matrix: (soil/water) SOIL

Lab Sample ID: 6203

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 20 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/26/98

Injection Volume: 2.00 (uL)

Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	82	U	
11104-28-2-----	Aroclor-1221	170	U	
11141-16-5-----	Aroclor-1232	82	U	
53469-21-9-----	Aroclor-1242	82	U	
12672-29-6-----	Aroclor-1248	82	U	
11097-69-1-----	Aroclor-1254	400		
11096-82-5-----	Aroclor-1260	110	P J	

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A4-007

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.916

SAS No.:

SDG No.: 6198

Matrix: (soil/water) SOIL

Lab Sample ID: 6204

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 22 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/26/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	42	U	
11104-28-2-----	Aroclor-1221	86	U	
11141-16-5-----	Aroclor-1232	42	U	
53469-21-9-----	Aroclor-1242	42	U	
12672-29-6-----	Aroclor-1248	42	U	
11097-69-1-----	Aroclor-1254	37	J*	J*
11096-82-5-----	Aroclor-1260	17	J*	J*

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1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A4-008

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.916

SAS No.:

SDG No.: 6198

Matrix: (soil/water) SOIL

Lab Sample ID: 6205

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 18 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/17/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	40	U	
11104-28-2-----	Aroclor-1221	82	U	
11141-16-5-----	Aroclor-1232	40	U	
53469-21-9-----	Aroclor-1242	40	U	
12672-29-6-----	Aroclor-1248	40	U	
11097-69-1-----	Aroclor-1254	65	P	
11096-82-5-----	Aroclor-1260	24	JP J*	

BDL

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A4-009

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.916 SAS No.: SDG No.: 6198

Matrix: (soil/water) SOIL

Lab Sample ID: 6206

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 22 decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/26/98

Injection Volume: 2.00 (uL)

Dilution Factor: 4.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	170	U	
11104-28-2-----	Aroclor-1221	340	U	
11141-16-5-----	Aroclor-1232	170	U	
53469-21-9-----	Aroclor-1242	170	U	
12672-29-6-----	Aroclor-1248	170	U	
11097-69-1-----	Aroclor-1254	900	P	
11096-82-5-----	Aroclor-1260	200	P J	

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

A4-010

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.916

SAS No.:

SDG No.: 6198

Matrix: (soil/water) SOIL

Lab Sample ID: 6207

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 26

decanted: (Y/N) N

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc)

SONC

Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/17/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
12674-11-2-----	Aroclor-1016	45	U	
11104-28-2-----	Aroclor-1221	91	U	
11141-16-5-----	Aroclor-1232	45	U	
53469-21-9-----	Aroclor-1242	45	U	
12672-29-6-----	Aroclor-1248	45	U	
11097-69-1-----	Aroclor-1254	270		
11096-82-5-----	Aroclor-1260	100	P	

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: E & E INC.

Contract:

A4-011

Lab Code: EANDE Case No.: 9800.916 SAS No.: SDG No.: 6198

Matrix: (soil/water) SOIL Lab Sample ID: 6208

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 9 decanted: (Y/N) N Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/17/98

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

12674-11-2-----Aroclor-1016	36	U
11104-28-2-----Aroclor-1221	74	U
11141-16-5-----Aroclor-1232	36	U
53469-21-9-----Aroclor-1242	36	U
12672-29-6-----Aroclor-1248	36	U
11097-69-1-----Aroclor-1254	130	P J
11096-82-5-----Aroclor-1260	37	

FORM I PEST

SW8082

1D
PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RB-2

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.916 SAS No.: SDG No.: 6198

Matrix: (soil/water) WATER

Lab Sample ID: 6209

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 05/06/98

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 05/11/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/15/98

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
12674-11-2-----	Aroclor-1016		1.0	U
11104-28-2-----	Aroclor-1221		2.0	U
11141-16-5-----	Aroclor-1232		1.0	U
53469-21-9-----	Aroclor-1242		1.0	U
12672-29-6-----	Aroclor-1248		1.0	U
11097-69-1-----	Aroclor-1254		1.0	U
11096-82-5-----	Aroclor-1260		1.0	U



Appendix D

Support Documentation

2F
SOIL PCB SURROGATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.915

SAS No.:

SDG No.: 6178

GC Column(1): RTX-5

ID: 0.53 (mm)

GC Column(2): RTX-35

ID: 0.53 (mm)

SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01 PBLKS1	123	114	114	109			0
02 A1-003A	106	100	176*	183*			2
03 A2-008	108	104	124	136			0
04 A2-008MS	107	100	100	113			0
05 A2-008MSD	104	103	122	129			0
06 A2-009	113	106	99	98			0
07 A2-010	102	100	115	116			0
08 A2-011	132	122	110	107			0
09 A2-012	117	110	96	98			0
10 A2-013	116	109	117	114			0
11 A2-014	113	102	154*	112			1
12 A2-015	114	105	143	140			0
13 A2-016	104	95	117	111			0
14 A3-001	119	110	104	111			0
15 A3-002	103	95	123	121			0
16 A3-003	103	101	116	109			0
17 A3-004	112	101	145	106			0
18 A3-005	119	113	108	129			0
19 A3-006	116	107	102	98			0
20 A3-007	104	92	120	98			0
21 A3-008	108	104	144	130			0
22 A3-009	126	118	162*	154*			2
23 A3-010	110	104	132	167*			1

QC LIMITS

TCX = Tetrachloro-m-xylene (50-150)
 DCB = Decachlorobiphenyl (50-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

2F
SOIL PCB SURROGATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 9800.916 SAS No.: SDG No.: 6198

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-35 ID: 0.53 (mm)

SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01 PBLKS1	110	101	107	104			0
02 A4-001	113	104	104	100			0
03 A4-001MS	110	106	110	94			0
04 A4-001MSD	112	107	102	92			0
05 A4-002	112	107	133	128			0
06 A4-003	108	102	108	91			0
07 A4-004	110	106	128	112			0
08 A4-005	108	104	109	110			0
09 A4-006	106	102	94	94			0
10 A4-007	49*	48*	38*	42*			0
11 A4-008	126	118	111	109			0
12 A4-009	105	104	99	101			0
13 A4-010	109	103	109	102			0
14 A4-011	96	92	82	96			0

QC LIMITS

TCX = Tetrachloro-m-xylene (50-150)

DCB = Decachlorobiphenyl (50-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

2E
WATER PCB SURROGATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.916

SAS No.:

SDG No.: 6198

GC Column(1): RTX-5

ID: 0.53 (mm)

GC Column(2): RTX-35

ID: 0.53 (mm)

	SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKW1	16*	16*	68	66			2
02	RB-2	102	96	29*	26*			2
03	RB-2MS	96	92	43	41			0
04	RB-2MSD	86	82	43	41			0

QC LIMITS

TCX = Tetrachloro-m-xylene (50-150)

DCB = Decachlorobiphenyl (50-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

3F
SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.915

SAS No.:

SDG No.: 6178

Matrix Spike -

Sample No.: A2-008

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1254	220	500	650	68	50-150

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
Aroclor-1254	220	670	77	12	35 50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III PEST-2

SW8082

3F
SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.916

SAS No.:

SDG No.: 6198

Matrix Spike -

Sample No.: A4-001

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1254	208	270	380	52.8	50-150

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1254	208	410	67.3	24.1	35	50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III PEST-2

SW8082

3E
WATER PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9800.916

SAS No.:

SDG No.: 6198

Matrix Spike - Sample No.: RB-2

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Aroclor-1254	10.0	0.0	8.0	80	50-150

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1254	10.0	7.5	75	6.5	2	50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III PEST-1

SW8082



ecology and environment, inc.

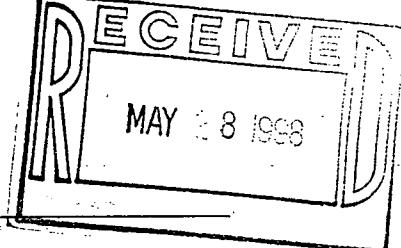
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Lancaster, New York 14086

Tel. (716) 685-8080, Fax: (716) 685-0852



May 27, 1998

LAB NAME: Ecology & Environment Inc.

PROJECT NUMBER: RFP #2535

SDG NARRATIVE:

Sample results are reported in the CLP format using CLP qualifiers.

The software used to generate the final report rounds the calibration factor to three significant figures in the final calculations.

Due to rounding or the chromatographers opinion not to use of some of the identified peaks due to interferences, some PCB quantitation values on the sample chromatograms may differ from the results reported on the form I.

Samples underwent sulfur cleanup procedures.

Several samples required analysis at secondary dilutions due to the concentrations of PCBs present.

Recovery of the surrogate decachlorobiphenyl was not met for samples A1-003A, A2-014, A3-009, and A3-010 on one or both columns. Recoveries were all high, ranging from 154% to 183% (upper limit is 150%).

Recovery of the surrogate tetrachloro-m-xylene was within acceptable limits for all samples.

~~X~~ The matrix spike analysis of sample A2-008 had a slightly low spike recovery at 46% (lower limit is 50%). The matrix spike duplicate had an acceptable spike recovery at 55%. No further action is required.

The continuing calibration check standard analyzed on 5/21/98 at 1231 hours showed a slight increase in sensitivity for decachlorobiphenyl. Except for sample A2-014 (154% on RTX-5 column), all associated samples met surrogate recovery criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Caryn Wojtowicz - Project Manager
Analytical Services Center
May 27, 1998

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END OF DATA PACKAGE